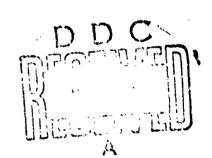
A METHOD AND DATA-REDUCTION TABLES FOR DETERMINING THE RESOLUTION OF CAMERA SYSTEMS UNDER TYPICAL FIELD CONDITIONS

By Carl M. Franz

20 JUNE 1972



NOL

NAVAL ORDNANCE LABORATORY, WHITE OAK, SILVER SPRING, MARYLAND

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A system is described for evaluating and other optical systems under test day use. The test data thus obtaing pheric haze, mount stability, opera 40 x 42 inch test targets, which are consist of resolution groups "minus widths varying from 0.56mm through tests performed with the above targenerated Resolving Power Data Redu Appendix C. These tables permit raimage plane resolution of camera sy lomm through 2000mm. Data is provided that the second with the second transportances for each of 48 lenses. A resolution to be determined for any magnification between 0.034621 and	t condition of condition focus of the condition focus of the condition for the condi	ons typic is the efting error the "US ough "min facilitates is precurate dig lens fivelve selet of 192 bystem pr	al of their every- fects of atmos- , etc. The AF-1951" design, us one" with line te the analysis of set of computer- esented in etermination of ocal lengths from ected object tables enables oducing an image			

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these latter tables are based solely on the size of the target image; the lens focal length and object distance need not be known. Three examples illustrating typical applications of the resolution targets and data reduction tables are presented. The references in this publication provide the background necessary for the inexperienced user to make full use of the resolving power tests provided in this report.

LINK A LINK B LINK C KEY WORDS ROLE ROLE LENS TESTING LENS RESOLUTION CAMERA SYSTEM TESTING PHOTOGRAPHIC TEST TARGETS IMAGE EVALUATION RESOLUTION TARGET

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17 January 1972

A METHOD AND DATA-REDUCTION TABLES FOR DETERMINING THE RESOLUTION OF CAMERA SYSTEMS UNDER TYPICAL FIELD CONDITIONS

This report describes a method and presents data reduction tables for use in evaluating the resolution of camera systems under test conditions typical of field use. The test method and data reduction tables were developed by the Photographic Division of the Engineering Services Department of the Naval Ordnance Laboratory (NOL), as part of the "High Acuity Experimentation II" program, which was conducted for Rome Air Development Center, Griffiss Air Force Base, Rome, New York. (MIPR No. F30602-71-X-0003).

The author wishes to thank Mrs. Mary Lou Blessing, of the Computer Applications Division of the Mathematics Department, for writing the computer program which produced the data tables. The author also wishes to thank Frank Pierce of the Publications Division for his editorial assistance in the preparation of this report.

ROBERT WILLIAMSON II Captain, USN Commander

By direction

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INTRODUCTION

Resolving power tests have long been used to assess the image quality of photographic systems under laboratory conditions. In an effort to apply the principles of laboratory-type resolving power tests to field testing of complete photographic systems, the Naval Ordnance Laboratory, White Oak, has prepared large-scale resolution targets suitable for use at distances typical of those encountered under field conditions. Although the method by which resolving power test imagery is translated into quantitative data is fairly simple, preparation of data from large quantities of these tests involve numerous time-consuming calculations. To simplify this task, the Laboratory has also prepared a set of computer-generated data reduction tables which are based on the associated large-scale resolution targets.

These data reduction tables can be used to determine the resolving power of camera and other optical systems under actual field conditions. They are also useful to the optical metrologist for designing resolution experiments. The purpose of this report is to explain the use of the data reduction tables, to provide the background by which they were developed, and to suggest possible applications.

The reader who has not had prior experience in performing resolving power tests (such as work with an optical collimator, National Bureau of Standards (NBS) targets at 21 focal lengths, etc.) should familiarize himself with two publications: A Method of Determining the Resolving Power of Photographic Lenses, NBS Circular 533 (available from Superintendant of Documents, Government Printing Office (GPO), Washington, D.C.); and MIL-STD 150A, Photographic Lenses (also available from Superintendant of Documents, GPO, Washington, D.C.).

BACKGROUND

Under a contract with Rome Air Development Center, Griffiss Air Force Base, Rome, New York, (entitled High Scuity Experimentation II, MIPR No. F30602-71-X-0003) the Photographic Air on of the Naval Ordnance Laboratory investigated the performance of a number of popular 35mm still cameras. A major portion of the investigation was to quantitatively determine typical field performance, reflecting the effects of atmospheric haze, mount stability, and operator variability among other factors. It was decided to use resolving power tests as the primary means of evaluation because of their simplicity, ease of evaluation, and because the overall program concerned the recording of threshold-quality imagery.

Normally, resolution tests are run under carefully controlled conditions at either relatively close distances or with the aid of an optical collimator. Provisions are made for eliminating camera vibrations and other effects which might degrade the quality of the data.

The test conditions used to determine typical field performance are considerably different, however. For the purposes of the NOL field testing program, the resolution targets had to be suitable for a wide range of conditions, including use with focal lengths of 35 to 1400mm and object distances in excess of one mile. A search was made to locate a suitable off-the-shelf target, but when none could be found, a large-scale resolution target based on the USAF 1951 Design was prepared (see Figure 1). Its 40 x 42 inch size (including margins) permits easy carriage and mounting in field use but it is large enough to be used at typical object distances. The largest resolution pattern can be detected with a 135mm lens at 2000 feet with an effective camera-system resolving power of 72 lines per millimeter.

DETERMINATION OF CAMERA SYSTEM QUALITY USING DATA REDUCTION TABLES After making a series of negatives of the resolution target and determining the smallest resolvable target on each negative by means of a 30-to 40-power microscope, one would normally compute the image plane resolution using the width of the target bar, the lens focal length, and the object distance. To simplify this task, data reduction tables (provided as Appendix C) have been prepared and especially keyed to the NOL large-scale test target. These tables facilitate direct and rapid determination of the image plane resolution for 48 lens focal lengths of 10 through 2000mm, at each of 12 typical object distances. A second series of tables allows determination of system resolution when the object distance and focal length are either In either of these latter unknown or are not listed in the tables. situations, the user selects a table based on system magnification determined by measuring the actual image size of the target as recorded on the film.

RESOLVING POWER TARGET DESIGN

The NOL large-scale resolution target is based on the design of the "USAF-1951" resolution target. The NOL target (Figure 1) consists of 36 target elements decreasing in spatial frequency as the sixth root of two(-0/2) (approximately 12 percent). The geometric design of the target elements and associated terminology are presented in MIL-STD 150-A. A standard target element consists of two patterns (two sets of lines) which are oriented at right angles to each other as shown in Figure 2. Each pattern in turn consists of three bars and two included spaces, all of equal width. The length of the bars is five times the bar width. A bar or a space is referred to as an interval, while the combination of a bar and a space is referred to as a unit. The unit width is used to compute the spatial frequency of the pattern.

To facilitate the microscopic examination of the test imagery, the 36 elements are organized into sets of six, each set being referred to as a group. Figure 2 illustrates a single target group. The NOL

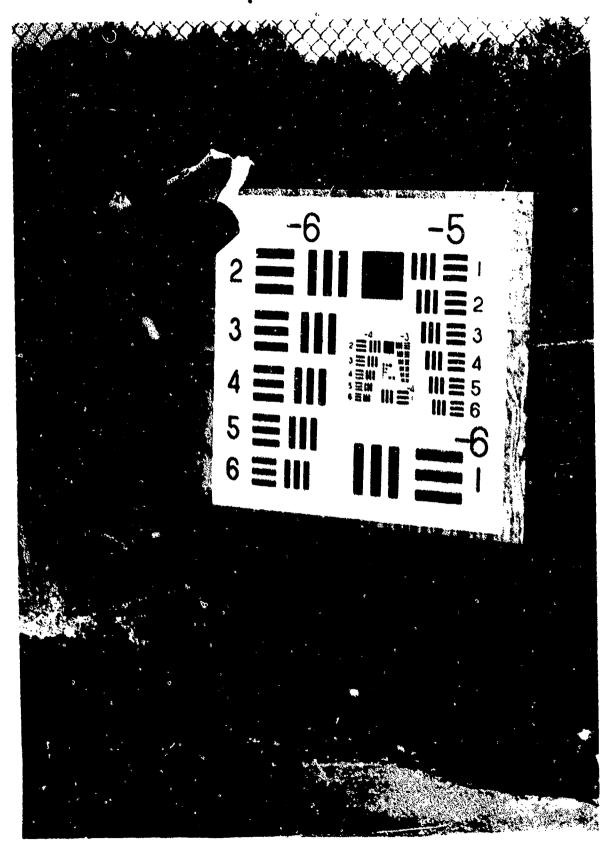


FIG. 1 LARGE-SCALE RESOLUTION TARGET

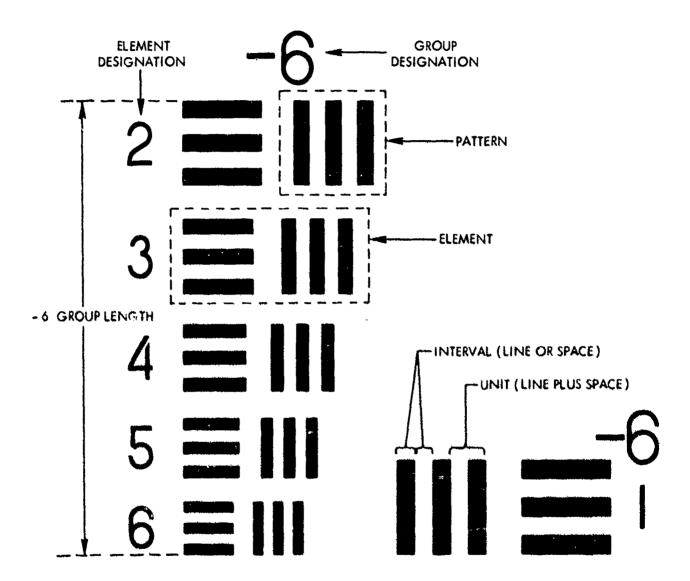


FIG. 2 RESOLUTION GROUP MINUS SIX SHOWING APPLICABLE TERMINOLOGY

target consists of groups "minus six" (-6) through "minus one" (-1). Each group in turn consists of six elements. The group number indicates, in terms of powers of two, the number of lines per millimeter of the largest pattern within the group:

where K is the group designation.

For example, in group "minus three":

$$R = 2^{-3}$$

$$R = \frac{1}{(2)^3}$$

R = 1/8 = 0.125 Lines/mm

The resolution of any pattern can be computed using the formula:

$$R = 2 K + \frac{N-1}{6}$$

where K is the group designation and N is the element designation.

The targets were prepared using two techniques. A full size 40 x 42 inch high contrast negative was made on polyester-based lithographic film using a process camera and a smaller format master. This negative was then used to make contact prints on resin-coated (dimensionally stable) photographic paper. Contact prints were made at three levels of contrast. The contrast ratios and density differences of the target lines and spaces were as follows:

High Contrast -	100:1	(AD =	2.00)
Medium Contrast -	6.3:1	$= Q\Delta$	0.80)
Low Contrast -	1.6:1	$(\Delta D =$	0.20)

All targets consisted of dark lines on a light background.

Although very satisfactory, photographic targets were expensive to make due to the time required to accurately assemble the matrix of prints into a 40 x 42 inch target. A second set of relatively inexpensive targets was prepared by printing the targets on heavy card stock using offset lithography. These targets, 40 inches high by 42 inches wide, including margins, were produced in high contrast only, having black lines on a white background. The array of resolution patterns (excluding the element and group designations) is approximately thirty inches square.

The Graphic Arts Research Center of Rochester Institute of Technology, Rochester, New York, 14623, is planning to market large-scale resolution targets similar to those described in this report. The targets will be printed on both paper and card stock in high, medium, and low contrast.

DATA REDUCTION TABLES; DESCRIPTION

The Data Reduction Tables* which are included in this report as Appendix C consist of four sections, as follows:

- Section (A) Nominal Dimensions of Resolving Power Test Target;
- Section (B) Resolving Power Data Tables for Specific Lens Focal Length/Object Distance Combinations;
- Section (C) Tabulation of Camera System Magnifications and Resultant Image Sizes;
- Section (D) Resolving Power Data Tables for Specific Camera Magnifications.

A description of each section is provided below:

- (A) NOMINAL DIMENSIONS OF RESOLVING POWER TEST TARGET. This single-page section presents the nominal dimensions of the interval widths and unit widths of elements one through six of groups "minus six" through "minus one". Dimensions are given in terms of inches as well as millimeters. The data reflects the theoretical design goals; the actual dimensions on the targets vary from these values due to limitations of the reproduction process. Definitions are presented for pertinent terminology.
- (B) RESOLVING POWER DATA REDUCTION TABLES FOR SPECIFIC LENS FOCAL LENGTH/OBJECT DISTANCE COMBINATIONS. This section contains data reduction tables for 48 lens focal lengths at each of 12 selected object distances. The lens focal lengths presented range from 10mm to 2000mm. The 12 object distances vary depending on the lens focal length. (The tables for 35mm lenses range from 10 feet to 400 feet, whereas the tables for 1000mm lenses range from 150 feet to 5000 feet.) Phove each data table is a four-line heading containing the following information:

Lens focal length in millimeters;

Object distance in feet and meters:

Image magnification;

Size of image in millimaters and inches.

^{*}A description of the computer program used in generating the data reduction tables and the program itself are provided in Appendices A and B.

Each data table consists of a six-by-six array of resolution values. The vertical columns denote groups "minus six" through "minus one", while the horizontal rows denote the elements.

The resolution values, which are presented in terms of lines-permillimeter, represent computed theoretical data, not test data. The
data presented in the tables is independent of the quality of the
optical system under evaluation. The quality of the optical system
comes into play by determining the smallest target which is resolved.
For a given lens focal length and object distance, a quality system
may resolve the "minus four" group, "element three" target, (79.9
lines per millimeter); whereas a poorer system might resolve only the
"minus five" group, element two target, (35.6 lines per millimeter).

Tests using a focal length/object distance combination not explicitly listed can often be readily evaluated by applying a simple factor to one of the existing tables. As an example, there is no table presented for evaluation of a 75mm lens at 750 feet. To compute the resolution of this combination, one refers to the 150mm/1500-foot table. The resolution value may be read directly from the table because the computed data for a 75mm lens at 750 feet would be identical to that provided for the 150mm lens at twice the distance. As long as the ratio of focal length to distance remains the same (e.g., 250mm at 1000 feet vs 1000mm at 4000 feet, etc.), the results can be read directly from any analogous table. This type of substitution does not result in any error.

If no ratio extension is available, another method may be employed. For example, data is not presented for evaluating a 135mm lenses at 125 feet and no multiples of the 135mm focal length are presented. However, a table does present data for 135mm lenses at 250 feet. Although the ratio is not the same, a resolution value can be approximated by reference to the 250-foot table and multiplying the value by two. This multiplication compensates for the two-to-one ratio of the object distances. Performance values determined by this method will generally be accurate within one percent. This is not a significant error considering that the selection of the target image resolved involves a choice of elements which vary by 12 percent.

To simplify the format of the data tables, all computed resolution values which are equal to or exceed 1000 lines per millimeter are given as 999.9.

The tables presented in Section B can be used to good advantage by anyone designing resolution experiments. If the object distance which is selected for a particular test is too short, all targets will be resolved and the test would yield no data. Conversely, if the distance is excessive, none of the targets will be resolved. The following procedures can be followed to eliminate these situations however:

1. Make an estimate of the number of lines per millimeter which can be resolved by the system. Past experience with the film/lens/camera combination is a good guide.

- 2. Refer to the page containing the lens focal length to be tested.
- 3. Scan the tables to locate a table based on any convenient object distance which lists the estimated system performance in groups "minus two" through "minus five." Groups "minus one" and "minus six" are for safety margins only and should not be used in determining the test distance.

As an example, consider a system which has an estimated resolving power of 80 lines per millimeter. If the test is to be performed at an object distance which lists 80 lines per millimeter at group "minus five," "element three." If the actual resolution of the system is only 40 lines per millimeter, a target will still be available to provide the data. In this case, it would be the group "minus six," "element three," target which the table indicates is equal to 40 lines per millimeter. Had we selected the distance where 80 lines per millimeter was listed at "minus six," "element three," no target would be resolved.

(C) TABULATION OF CAMERA SYSTEM MAGNIFICATIONS AND RESULTANT IMAGE SIZES. In some testing situations, the object distance, focal length, or both will be unknown. A determination of system resolution can still be made under these conditions by determining the image size of the target on the resulting test film. This measurement, referred to as the "-6 Group Length," will then allow the selection of an appropriate data table.

A traveling-stage microscope or other suitable instrument can be used to measure the length of the "minus six" group from the top of its second element to the bottom of its sixth element (Figure 2). The measurement may be in millimeters or inches, whichever is more convenient.

Turning to the "-6 Group Length" table (Section C of Appendix C), one then scans the appropriate inch or millimeter column to locate the entry closest to the measured value. The corresponding value of magnification can be read from the adjacent column. The tabulation of values in this table range from a magnification of 0.000139 to 0.034621 and vary with the 24th root of $2(\sqrt[4]{2})$. Using the selected magnification value, one can refer to Section D which provides image plane resolution tables by magnification rather than by focal length and object distance.

(D) RESCLVING POWER DATA TABLES FOR SPECIFIC CAMERA MAGNIFICATIONS. Format and use of these tables are identical to those in Section B of Appendix C. System resolutions are determined from these tables in the manner previously described. Note that each table is valid for any system which produces the stated image size and magnification, regardless of the specific focal length and object distance used.

APPLICATIONS OF LARGE-SCALE RESOLUTION TESTS

There are numerous practical applications for large-scale resolution targets. Three typical examples are discussed below.

Example 1

Large-scale resolution targets allow plangraphic and other optical systems to be tested under conditions which are typical of their everyday applications. As such, these tests provide a quantitative measurement of the effectiveness of the system under the conditions normally encountered during actual use.

The data gathered by these tests reflect the effects of atmospheric haze and shimmer, focusing accuracy, camera mount stability, etc. In many applications, these degradations are the dominant factors in determining the performance of the system.

Example 2

It is frequently worthwhile to compare actual field tests with reference or "control" tests (laboratory tests of the same equipment, or field tests made under more stringent conditions). Comparison tests of this type can reveal (1) the percentage of resolution loss due to atmospheric haze, (2) the minimum shutter speed which can be used to hand-ho a long lens while still maintaining a desired level of resolution. (3) the minimum shutter speed required when photographing a moving object, or (4) the stability of one tripod versus another.

The comparison of the two test conditions can identify that point (a minimum shutter speed for example) where field data is not degraded with respect to control data, or it can be used to indicate percent resolution loss of field tests versus control tests.

Example 3

Large-scale resolution tests can be used to assess the object space resolution* of pictorial imagery. This technique was utilized in a recent NOL investigation which was concerned with determining the minimum image quality requirements necessary for identification of people. Typical results of increasing image quality and the associated increase in certainty of identification are shown in Figure 3.

This problem area was divided into three levels of pictorial quality:

^{*}Object space resolution: The spatial frequency of the target or the width of the target bar which is resolved in the photographic record.

iC

iarcet resouved: Group "2" element "4" Line width 1. 41 mm 6.056"

TARGET RESOLVED; GROUP "S" ELEMENT 4 LINE WIDTH 11.31 MM (0. 445")

GROUP "4" ELEMENT "3" LINE WIDTH 6, 35 MM 80, 250"

CROUP "3" ELEMENT '3" LINE WIDTH 3, 18 MM 10, 125"

TAPEET RESOLVED:

TARGET RESOLVED.

8



SEACNIFICATION - 11X

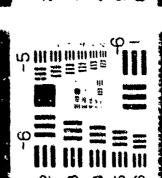


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MAGNIFICATION - 22X

MAGNIFICATION - 4CX

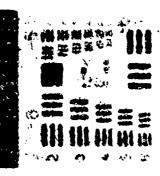


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PHOTOGRAPHED AT FOUR REPRESENTATIVE GISTANCES FROM 25' TO 200'. THE FOUR PHOTOGRAPHE DAT FROM A SET OF 14 PAIRS MADE AT DISTANCES FROM 20' TO 400' TO DETERMINE THE MINIMUM OBJECT-SPACE RESOLUTION WHICH WOULD ALLOW IDENTIFICATION OF AN INDIVIDUAL.

SHOWN ARE MATCHED PHOTOGRAPHS OF A MODEL AND A LARGE-SCALE RESOLUTION TARGET,

MAGNIFICATION - 88X



CAMERA: 35 MM BESSLER TOPCON SUPER D LENS: S8 MM AT f111 !MAGE PLANE RESOLUTION, ALL FRAMES: 46 LINES/MM ± 12% (± 1 ELEMENT) FILM: TRI-X

FIG. 3 DETERMINATION OF OBJECT-SPACE RESOLUTION

2

- (1) Personnel Detection: To differentiate personnal from the adjacent background and to count the number of people present in the photograph;
- (2) Personnel Recognition: To provide general descriptions of the personnel present in a photograph, i.e., sex, height, weight, hair color and length, presence of glasses, etc.; and
- (3) Personnel Identification: To identify beyond reasonable doubt the presence of a specific individual.

To meet each one of these standards successively, an increasing improvement in pictorial quality is required.

An experiment was performed to determine the degree of object space resolution required for the above levels. Using a 58mm lens and Tri-X film, a group of five people and a large-scale resolution target were photographed at 14 separate distances, varying from 50 to 2016 feet.* The resulting film was then analyzed to determine the smallest resolvable target at each distance. The width of the selected target bars was a direct measurement of the object-space resolution present in each negative. (Note that previous examples have been concerned with lines per millimeter on the film; here we are concerned with the minimum size of the actual target lines which were successfully recorded., A set of 40% enlargements was then produced. These prints were then examined by several qualified interpreters to determine the lowest level of pictorial quality which could be tolerated and still enable the interpreter to extract the information at the three required levels. (Although final conclusions have not been made, it appears that an object-space resolution of 1/8 inch is necessary if one is to meet the "personnel identification" criteria.)

Other Applications

The NOL large-scale resolution targets and associated data reduction tables can also be used to evaluate night vision devices surveyor's transits, telescopes, binochlars, and a variety of other optical devices under field conditions.

For this experiment, a second set of data reduction tables were prepared similar to those in Appendix C. The 24 object distances per lens focal length varied with the 3/2; e.g., 100, 126, 159, 200, 318 feet, etc.

REFERENCES

A Method of Determining the Resolving Power of Photographic Lenses; NBS Circular 533. Superintendant of Documents, Government Printing Office, Washington, D.C.

MIL-STD 150A; Photographic Lenses. Superintendant of Documents, Government Printing Office, Washington, D.C.

APPENDIX A DESCRIPTION OF COMPUTER PROGRAM

APPENDIX A

DESCRIPTION OF COMPUTER PROGRAM

The computer program used to generate the Resolving Power Data Reduction Tables is presented in Appendix B. The following description of the program's functions and its data deck atructure should enable others to modify the program to generate tables for focal lengths and object distances not contained in Appendix C.

The Fortran IV program was written to present resolving power data tables for (1) given lens focal lengths and associated object distances and (2) generated magnifications. The main program acts basically as an executive calling in the various subroutines to perform computations, printing, etc.

Subroutine FOCAL computes the image magnification, "-6 Group Length," and resolving power data for a given focal length and object distance. The resolving power for group "minus six," "element one" of each table (referred to in program as "result") is computed from the above variables, the remaining data in each six-by-six array is arrived at by multiplying the "result" by each of 35 stored constants. This routine also stores the resolution data along with the test conditions, magnification, and "-6 group length".

Subroutine GENER generates a series of magnification values based on chosen (by data card) limits and power of two.

Subroutine MAGNIFY computes the resolving power data tables for the generated magnifications values.

Subroutine IMAGPRT prints the tabulation of generated magnification values and the associated "-6 group lengths".

Subroutine HEADER prints the tabulation of nominal target dimensions, notes, and nomenclature.

Subroutine PAGPRT prints the 12 data tables per focal length and the heading above each table which lists the test conditions and associated data.

Constraints within the program limit the number of input object distances, per data card, and the number of tables per page in the output to 12. Also, the total number of magnifications at any one time during execution (either generated or computed from focal lengths) is limited to 900. It should also be noted that any resolution value equal to or in excess of 1000.0 is set to 999.9.

On a CDC 6400, the program required an octal field length of 31,000 during execution and required 33 seconds of central processor time to execute under the Fortran Extended Compiler.

The data deck is structured as follows:

CARD NO.	COLUMNS	VARIABLE	DEFINITION
1	1-5	N	- Number of tables per page, not to exceed 12 (Right Adjusted). To obtain 24 ob- ject distances per focal length, use two input data cards per lens.
	6-10	MAG	- Indicator of method of computation to be used: a value of minus one (-1) will produce both the focal length tables (Section B) and the magnification tables (Section D). A value of zero (0) will produce only the focal length tables; a value of plus one (+1) will produce only the magnification tables (Right adjusted).
	11-15	NF	- Total number of focal length data cards (Right adjusted).
2 through (NF+1)	1-5, 6-10 11-1556 61-65	-60,	 One focal length and up to 12 object distances (feet) per card (Right adjusted).
NF+2	1-10	XMAX	 Maximum desired value of generated magnifications (floating point).
	11-20	XMIN	 Minimum desired value of generated magnifications (floating point).
	21-30	ROOT 2	- Root of two (2) used to build magnification values (floating point). A value of 24 was used to obtain the Section D tables which vary the magnifi- cation value by the 24th root of 2.

APPENDIX B

COMPUTER PROGRAM

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FCATRAM EXTENDED VERSION 2.0
 FOLEGT
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PRODRAM

0.5

10,55.56.

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CTMIS ROUTINE PRINTS A SORTED CROSS-REFERENCE LISTING OF THE MAGNIFICATIONS AND
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                                                       CIMENSION GROUP (36)
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FORMAT (3F10.7)

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COMMON SAVE4 (#00)
COMMON MAG
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FUNTHAM FATENDED VERSION 2.0

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SUBROUTINE MMAGPRT FORTRAN EXTENDED VERSION 2.0

SUBROUTINE XMAGPRT

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COMMON RESULT.LENGTH.OBJECTD(12).A(12.36).SAVE

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ST = SAVE4(J).25.4
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X*15.*PM FOCAL LENGTH LENSES*//)
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(GK. O-CHAGNIFICATION --O-FIO. 6)

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APPENDIX C (DATA REDUCTION TABLES)

SECTION (A)

NOMINAL DIMENSIONS OF RESOLVING POWER TEST TARGETS

MOMIMAL DIMENSIONS OF RESOLVING POMER TEST TARGET

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NDTES - (1) LENGTH OF -6 GROUP (TOP OF END ELEMENT TO BOTTOM OF 6TH ELEMENT)766MM. 30.02 INCHES (2) Interval Length Equals five times interval width

NOMENCLATURE

INTERVAL - A LIME AND ADJACENT SPACE
UNIT - A LIME AND ADJACENT SPACE
PATTERN - THREE LIMES AND TWO INCLUDED SPACES
ELEKENT - AN ARRANGEMENT OF TWO PATTERNS SET
AT RIGHT ANGLES TO EACH OTHER AND SEPARATED BY ONE UNIT SPACE
GROUP - AN ARRAY OF SIX ELEMENTS

SECTION (B)

RESOLVING POWER DATA TABLES FOR SPECIFIC LENS FOCAL LENGTH/OBJECT DISTANCE COMBINATIONS

POCAL LENSTH 100H OBJECT DISTANCE 10.FT. (3.05H) MAGNIFICATION 905282 6ROUP LENSTH. R. BIRHK 6961N 6ROUP LENSTH. R. BIRHK 6961N 6.7 10.7 21.9 48.0 49.0 15.0 6.0 12.0 23.0 47.8 98.7 191.0 6.7 13.4 26.9 59.7 107.4 214.8 7.5 15.1 30.1 20.1 20.4 125.9 270.7	POCAL LENGTH 18NH OBJECT DISTANCE 35.FT.(10.67M) MAGNIZICATION 0.00038 6.FOUP LENGTH 718MH(.02821N.) 6.FOUP LENGTH 718M	COLL LENGTH - 10MM COLSECT DISTANCE- 100.FT.(30.48M) MAGNIFICATION - 6060328 -6 GROUP LENGTH- 250MM(00991N.) 6 A7.4 95.2 190.4 380.9 76.7 999.9 53.4 106.9 213.8 427.5 855.1 999.9 60.0 120.0 239.8 479.9 956.7 999.9 61.3 134.7 269.3 574.6 999.9 61.3 134.7 269.3 574.6 999.9 61.3 134.7 269.3 574.6 999.9 61.3 134.7 269.3 574.6 999.9 61.3 134.7 269.3 574.6 999.9 61.3 134.7 269.3 574.6 999.9	FOCAL LENGTH - 150MM (JOSEPH) (TO.20M) MAGNIFICATION - 1506131 (TO.20M) (MAGNIFICATION - 1506131 (MAGNIFICATION - 150613
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IMAGE PLANE RESOLUTIOM (LINES PER MILLINETER) FOR 13MM FOCAL LENGTH LENSES

1344 10.FT.(.004283 5.26888(.12	10 10 10 10 10 10 10 10 10 10 10 10 10 1		FOCAL LENGTH - 13MM OBJECT DISTANCE 100°FT (30°46M) MAGNIFICATION - 000427 -6 GROUP LENGTH - 326MM (0126IN) 16 A5 73 2 146 5 293 0 585 9 999 9 965 1 136 3 136 5 261 6 522 0 990 9 99 9 965 2 130 5 261 6 522 0 990 9 99 9	FOCAL LENGT: 13HH OBJECT DISTANCE. ESG.FT. (76.20M) MAGNIFICATION
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POCAL LENGTH - R188 DBJECT DISTANCE - 10.FT. 2.05M) MAGNIFICATION - 000038 -6 GROUP LENGTH B.2938M(.2004IN.) R.5 6.9 10.1 20.2 40.0 70.1 E.5 5.1 10.1 20.2 40.0 70.1 E.6 5.7 11.4 20.7 45.4 60.8 B.6 6.7 11.4 20.7 45.4 60.8 B.6 6.7 11.4 20.7 45.4 60.8 B.6 6.7 11.4 20.7 45.4 60.8	POCAL LENGTH - RINH OBJEC' DISTANCE - 35.77. 10.67H) MAGNI ICATION - 00.172 -6 SR UP LENGTH - 1.585/RM (.65021N.) -6 SR UP LENGTH - 1.585/RM (.6502N.) -6 SR UP LENGTH - 1.585/RM (.6502N.) -6 SR UP LENGTH - 1	FOCAL LENGTH RINKE BOLECT DISTANCE 100.FT. [30.48H] ASBNIFICATION 600000 620HM.) 620HM. 620HM.)	FOCAL LENGTH RINN CBUECT DISTANCE #80.FT. ('76.20H) MAGNIFICATION #80.FT. ('76.20H) -6 GROUP LENGTH RIGHN (GOBGIN.) -6 GROUP LENGTH RIGHN (GOBGIN.) -6 -5 -5 -5 -7 +53.4 +66.9 +66.9 53.6 127.2 254.5 500.0 +66.9 +66.9 71.4 142.8 285.7 571.8 +66.9 +66.9 60.0 180.0 350.0 +610.8 340.9 +690.9 101.0 202.0 404.0 808.0 +690.9 +990.9
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IMAGE PLANE RESOLUTION (LIMES PER MILLIMETER) FOR SOMM FOCAL LENGES

FOCAL LENGTH RSNM OBJECT DISTANCE RS.FT. (7.62M) MAGNIFICATION 003802 -6 GROUP LENGTH. 2.512MM (.00001N.) 6ROUP 5 13 11 6.7 12.0 38.0 75.0 151.9 5.3 10.7 21.3 42.6 85.3 170.5 6.0 12.0 28.9 47.6 85.3 170.5 6.7 13.4 26.9 83.7 107.4 214.6 7.5 15.1 30.1 60.3 120.6 241.1	FOCAL LENGTM - ESMM CBLECT DISTANCE	FOCAL LENGTH - BSHM OBJECT DISTANCE - POOTT (60.96M) MAGNITICATION - 0000110 .6 GROUP LENGTH - 313KM (01231N.) GROUP - 313KM (01231N.) GROUP - 15 - 16 20.1 74.2 132.3 304.7 609.3 690.9 42.7 85.5 171.6 182.0 664.0 690.9 62.7 85.5 171.6 182.0 664.0 690.9 60.5 120.9 241.8 483.6 667.3 690.9 67.9 135.7 271.4 542.9 690.9 690.9	FOCAL LENGTH
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FCCAL LENGTH - REACH 7.62M) OBJECT DISTANCE 25,FT. 7.62M) MAGNIFICATION - 001868 11081K.1 6 GROUP LENGTH 2.814MM 110818.6 7.8 10.7 21.6 40.7 88.4 170.8 7.8 10.7 21.4 42.7 88.4 170.8 7.8 15.1 30.2 60.4 120.8 2818.7 6 7.8 15.1 30.2 60.4 120.8 2818.6	FOCAL LENGTH REMH OBJECT DISTANCE 75.FT. (22.86M) HAGNIFICATION	FOCAL LENGTH 28MM OBJECT DISTANCE 600-60 6 GRCUP LENGTM 381MM (-01381N-) 6 GRCUP LENGTM 6 GRCUP 6 G	FOCAL LENGTH - 28MM OBJECT DISTANCE - 600.FT.(IZI.92M) HAGNIFICATION - 0006230 -6 GROUP LENGTH - 175HK(.00691N.) -6 -5 -5 -7 -1 544.2 999.9 999.9 76.4 152.7 305.4 610.8 999.9 999.9 76.4 152.7 305.4 610.8 999.9 999.9 108.0 216.0 431.9 863.8 999.9 999.9 5 121.2 242.4 484.6 969.6 999.9
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FOCAL LENGTH - 3588 OBJECT DISTANCE 25.FT. (7.628)	CATION004614	IP LENGTH- 3.521MM	GROUP				6 9.6 19.2 32.3 76.6 153.	.4 10.8 21.5 43.0 86.0 172.	.0 12.1 24.1 46.3 46.5 193.	NHK.	BLECT DISTANCE TO	PROTOPO A POTOPO VICEO V	DECUT LENGTH 1.1. COND.	85 84 83 82	10.2 20.4 40.8 81.5 163.0 326.	11.4 22.9 45.8 91.5 183.0 366	12.8 25.7 51.4 102.7 205.4 610.	14.4 28.8 87.6 115.3 236.9 401.	16.2 32.4 64.7 129.4 258.8 317.	18.2 36.3 72.6 145.2 K40.5 561.	35MH	XCE- 20	448000. I X	0TH4	ROUP		27.2 54.4 108.8 217.4 435.2 670.	CARRET SAFA CARRET CON	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A1.2 86.4 172.7 345.4 690.8 999.	46.5 96.9 193.9 387.7 775.4 999.	OCAL LENGTH - 35MM	OBJECT DISTANCE- 400-FT. [1219-924)	AGNIFICATION - • • • • • • • • • • • • • • • • • •	ABOUP SELVAN	2 C + + 10 10 10 10 10 10 10 10 10 10 10 10 10	54.4 108.8 217.7 435.3 870.6 999	61.1 122.2 244.3 488.6 977.3 999	3 68.6 137.1 274.2 548.4 959.9 999.9	TAN DESCRIPTION DESCRIPTION OF THE GOOD OF SECTION OF THE SECTION	86.4 172.6 345.5 691.0 499.4 49	ere table ded/ meles table dete	
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PARGE PLANE RESOLUTION (LINES PER MILLINETER) FOR 40MM FOCAL LENGTH LENSES

ENGTH 40000 CATION 405577 (7.624) CATION 405577 (7.524) FERGITA 4.02000 (150210.) 6704 474 44.0 6.6 13.3 25.6 25.2 100.4 7.5 14.0 20.0 20.0 20.0 100.4 7.5 14.0 20.0 20.0 100.4	FOCAL LENGTH - +0000 MAGNIFICATION - 051753 -6 GROUP LENGTH- 1-337EM 0987IN.) -6 GROUP LENGTH- 1-337EM 0987IN.) -6 GROUP LENGTH- 1-337EM 0987IN.) -7 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	CALICAL CALICAL CALICAL CALICAL CALICAL CACCAL CACCACACACACACACACACACACACACA	ELENOTH
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452H 85.FT. (7.42M) .005941 4.5334M(01795IN.)		19.011 RR.00M) 5001078 5001078 5001078 5001078 500108 5001	20071-; 50.06%; 50.00730;	4888 408046 ************************************
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45MH 15.FT. (4.57K) .009940 .564KK (.2986IN.)	-3 -2 -1 12.6 25.1 50.3 14.1 28.2 56.5 15.8 31.7 63.4 17.8 35.6 71.1 20.0 39.9 79.8	45MH • 002962 • 260MM (.0890IN) 42.2 84.4 168.8 47.4 94.8 189.5 59.7 119.4 238.8 57.0 134.0 268.0 75.2 150.4 300.8	45MH •000985 •752MM(•02961N.) -3 126.9 253.8 507.5 142.4 284.8 569.7 179.4 286.9 717.7 201.4 402.8 605.6	45MM 300.FT. (91.44M) -000492 -376MM (0148IN.) -3 -2 -1 253.9 507.8 999.9 319.9 639.7 999.9 319.9 639.7 999.9
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SOMM FOCAL LENGTH LENSES

PAGE PLAKE RESOLUTION (LINES PER MILLIMETER) FOR

IMAGE PLANE RESOLUTION (LINES PER MILLIMETER) FOR SOMM FOCAL LENGTH LENSES

FOCAL LENGTH - SOMM OBJECT DISTANCE - RS.FT. (7.62H) MAGNIFICATION - 000608 - 00000	FOCAL LENGTH 501M OBJECT JISTANCE- 100.FT. (30.48H) MAGNIFICATION 001643 6 SROUP LENGTH- 1.254MM (.0.48H).) 5 5 7 9.5 19-0 38-0 74-1 152-2 304-3 10-7 21-3 42-7 85-4 170-8 341-6 12-0 24-0 47-9 95-4 170-8 341-6 12-0 24-0 47-9 95-4 191-7 383-4 13-4 26-9 53-8 107-6 215-2 430-3 15-1 30-2 60-4 120-8 241-5 483-0 16-9 33-9 67-8 135-6 271-1 542-2	FOCAL LENGTH 50MM OBJECT DISTANCE- 250.FT. (76.20M) MAGNIFICATION 600087 6 GROUP LENGTH- 551MM (.0197IN.) GROUP 3 6 6 6 6 6 6	FOCAL LENGTH 50NH OBJECT DISTANCE 5000.FT. (132.40H) MAGNIFICATION 5000.RE 6ROUP LENGTH 250NH (.0095?N.) 7.6 95.2 190.4 380.9 74.7 999.9 53.4 106.9 213.8 427.8 855.1 999.9 60.0 120.0 239.9 479.9 996.7 999.9 67.3 134.7 269.3 538.6 599.9 999.9 75.6 151.2 302.3 604.6 999.9 999.9
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FOCAL LENGTH = 50MM GAGNIFICATION = 010678 -6 GROUP LENGTN=12-725MM (.5010IN-) -6 GROUP LENGTN=12-725MM (.5010IN-) -6 -5 -4 -7 -3 -2 -1 1-1 2-1 4-2 6-4 16-8 33-7 1-2 2-4 4-7 9-4 16-9 37-8 1-3 2-6 5-3 10-6 21-2 42-4 1-5 3-9 5-9 11-9 23-9 47-6 1-7 3-3 6-7 13-4 26-7 53-4	FOCAL LENGTH - 50 PT 1 15.24 M) OBJECT DISTANCE - 50 FT 1 15.24 M) MAGNIFICATION - 003292 -6 080UP LENGTH 2.512MM (.09895M.) 680UP LENGTH 2.512MM (.09895M.) 690	FOCAL LENGTH - 50MM OBJECT DISTANCE- 150.FT.(45.72M) MAGNIFICATION - 001095 MAGNIFICATION - 035MM(.03291M.) 14.3 28.5 57 1114.2 228.3 456.7 16.0 38.0 71.9 143.4 287.7 575.4 20.2 40.4 80.7 161.5 322.9 645.9 22.7 45.3 90.6 181.2 362.5 725.0 25.4 50.9 101.7 203.4 406.9 813.7	FOCAL LENGIN - 50MM OBJECT DISTANCE- 300.FT: { 91.44M} MAGNIFICATION - 000547 -6 GROUP LENGIN- 417MM { 0.1641N•} 28.6 57.1 114.2 226.5 572.0 913.9 32.1 64.1 128.9 257.9 572.7 999.9 46.4 70.8 161.6 323.1 846.2 999.9 45.3 90.7 181.3 382.7 725.4 999.9 45.3 90.7 181.3 382.7 725.4 999.9
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FOCAL LENGTH - 55MM OBJECT DISTANCE. 25,FT. (7,62M) MAGNIFICATION - 007270 -6 GROUP LENGTH 5,547MM (2184IN.)	2.1 4.3 6.6 17.2 34.4 60.6 2.7 5.4 10.6 21.7 43.3 86.6 77.2 2.7 5.4 10.6 21.7 43.3 86.6 97.2 3.6 6.1 12.2 24.3 46.6 10.6 21.7 43.3 46.6 97.3 3.4 7.7 13.3 30.6 61.3 122.3 30.6 61.3 122.3	FOCAL LENGTH = BSNM OBJECT DISTANCE = 100.FT. (30.46M) MAGNIFICATION = .001606 -6 GROUP LENGTH = 1.379MM (.US43IN.) GROUP = 3.79MM (.US43IN.) GROUP = 3.79MM (.US43IN.) GROUP = 3.79MM (.US43IN.) 10.9 21.0 43.6 67.1 136.3 276.6 9.7 19.4 38.8 77.6 185.2 310.8 10.9 21.0 43.6 87.1 174.2 348.8 12.2 24.4 48.9 109.8 219.8 499.1 13.7 27.4 54.9 109.8 219.8 499.1	FOCAL LENGTH - 55NH 6-20H) OBJECT DISTANCE- 250-FT, 76-20H) HAGNIFICATION - 6.J722 -6.GROUP LEATON - 551HH 02171N-) GROUP LEATON - 551HH 02171N-) GROUP LEATON - 551HH 0227 24-3 48-6 97-1 194-3 388-5 777-0 27-3 54-5 109-0 218-0 436-1 872-2 30-6 61-2 122-4 244-7 489-5 979-0 34-3 56-7 137-4 274-7 549-4 999-9	FOCAL LENGTH = 55MM OBJECT DISTANCE = 00074; 152.40M) HAGNIFICATION = 006034; -6 GROUP LENGTH = 275MM (01041N.) -6 -5 -6 -7 -7 -1 340.2 692.5 999.6 48.6 97.2 194.3 388.7 777.3 999.6 54.5 109.1 218.1 436.2 872.5 999.6 61.2 122.4 24.8 489.7 679.3 999.6 61.2 122.4 24.8 449.6 999.9
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GBJECT DISTANCE. 25,FT (7.62M) MAGNIFICATION	FOCAL LENGTH - 60MM OBJECT DISTANCE - 75.FT.(22.86M) HAGNIFICATION - 002632 -6 GROUP LENGTH 2.008MM 0791N.) GROUP - 3 - 4 - 5 - 6 - 5 - 4 - 7.5 95.0 190.0 6.7 13.3 26.7 53.3 106.6 213.3 7.5 15.0 29.9 59.8 119.7 239.3 7.5 15.0 29.9 59.8 119.7 239.3 7.5 15.0 29.9 59.8 119.7 239.3 7.5 15.0 29.9 59.8 119.7 239.3 7.5 15.0 29.9 59.8 119.7 239.3 7.5 15.0 29.8 110.6 21.2 42.3 84.6 169.3 338.5 51.6	POCAL LENGTH	FOCAL LENGTH - 60MM RAIL-92M HAGNIFICATION - 000492
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CCAL LEMGTH - 60MM CHJECT DISTANCE- 15.FT (4.57M) AGGNIFICATION - 013296 AGGNUP LENGTH-10.146MM (39995IN.) GROUP LENGTH-10.146MM (39995IN.) 1.2 2.3 4.7 -3 10.6 21.1 42.2 1.3 2.6 5.3 10.6 21.1 42.2 1.5 3.0 5.9 11.8 23.7 47.4 1.7 3.3 26.6 53.2 1.9 3.7 7.5 14.9 29.8 59.7 2.1 4.2 8.4 16.7 33.5 67.9	FOCAL LENGTH - 60NH DALECT DISTANCE - 50.FT. (15.244) HAGNIFICATION - 003953 - GROUP LENGTH- 3.016HH (1187IN.) GROUP LENGTH- 3.016HH (1187IN.) - 5 - 6 - 70 - 15.5 - 6 - 70 - 15.5 - 6 - 10.5 - 22.4 - 6.5 - 11.2 - 22.4 - 6.5 - 11.2 - 22.4 - 6.5 - 11.2 - 22.5 - 6.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5 - 22.5 - 7.5	FOCAL LENGTH — 60MM UPJECT DISTANCE— 150.FT. (45.72M) AGNIFICATION — 601314 AGNOUP LENGTH— 1.003MM (0395IN.) GROUP — 3 — 4 — 3 II.9 23.8 47.6 95.1 190.2 380.5 I3.3 26.7 53.4 106.8 213.6 427.1 I5.8 33.6 67.3 134.5 269.1 5381 IR.9 37.8 75.5 151.0 302.0 604.0 21.2 42.4 84.7 159.5 339.0 672.0	FUCAL LENGTH — 60NM ORLECT DISTANCE 300.FT.(91.44M) HAGNIFICATION — 0000657 -6 GROUP LENGTH 501MM(.01971N.) GROUP 3.4 23.8 47.6 95.2 190.4 380.7 761.8 26.7 53.4 106.8 213.7 427.4 854.8 30.7 67.3 134.6 269.2 538.5 999.9 37.8 75.6 151.1 302.2 604.4 999.9
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FOCAL LENGTH - 75MM OBJECT DISTANCE - 25.FT. (7.62M) -6 GROUP LENGTH- 7.504MM (.2906IN.) -6 -5 -4	FOCAL LENGTH - 75MM OBJECT DISTANCE- 100-FT (30-48H) MAGNIFICATION - 002467 -6 GROUP LENGTH- 1.882MM (.0741IN.) GROUP -3 n2 n2 n2 n2 n3 n2 n3 n2 n3 n2 n3 n2 n3 n2 n3	FOCAL LENGTH - 75MM OBJECT DISTANCE 250.FT.(76.20M) HAGNIFICATION - 000985 -6 GROUP LENGTH .75ZMM(0.296IN.) 15.9 31.7 63.4 126.9 253.8 507.5 17.8 35.6 71.2 142.4 264.8 569.7 22.4 44.9 89.7 179.4 388.9 717.7 22.2 50.4 100.7 201.4 402.8 805.6 26.3 56.5 113.0 226.1 452.1 904.3	FOCAL LENGTH
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BSMM FOCAL LENGTH LENSES

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FOCAL LENGTH - 65MM OBJECT DISTANCE 75.FT. (22.86M) MAGWIFICATION - 003732 6 GROUP LENGTH 2.448MM ()1211N.) GROUP - 5.448MM ()1211N.) GROUP - 5.458MM ()1211N.) GROUP - 5.458MM ()15.8180.4 5.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	FOCAL LENGTH	FOCAL LENGTH - BSMM OBJECT DISTANCE +00.FT. (121.02M) MAGNIFICATION - 000600 -6 GROUP LENGTH - 532MM (.0210IN.) GROUP -	FOCAL LENGTH - 65MM OBJECT DISTANCE-1000.FT. (304.80M) AGNIFICATION213MM (.00841M.) GROUP LENGTH213MM (.00841M.) GROUP LENGT
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### ##################################	FOCAL LENGTM - BSSKK UJECT UISTANCE- 150.FTs (45.72M) "AGMIFICATION - 001863	FOCAL LEMGTH - ASPH UMJECT GLSTANCE - 300.FT.(91.44M) "AZUMIFICATION - 000930 -> GMOLE TENGTH - TIMM(.0279IN.) GAOLE - TIMM(.0279IN.) -6 -5 -5 -7 -7 -7 -150.8 301.6 603.2 21.2 42.3 84.6 150.8 301.6 603.2 21.2 42.3 84.6 150.8 301.6 603.2 21.7 52.3 104.6 213.3 426.5 853.0 20.0 50.4 110.7 230.4 478.8 957.5	FIGAL LENGTH — B5NK IMPECT OLSTANCE — 750.FT.(228.60M) AGGILD LENGTH — 000372 AGGILD LENGTH — 284MM(.011214.) 687UP — 3 42.0 44.0 164.0 376.1 672.1 999.9 47.2 94.3 188.6 377.2 754.4 999.9 47.2 94.3 188.6 377.6 754.6 999.9 47.4 198.8 237.6 475.2 950.5 999.9 PA. 118.8 237.6 475.2 950.5 999.9 PA. 118.8 237.6 475.2 950.5 999.9 PA. 118.9 297.6 475.2 950.5 999.9
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90MM FOCAL LENGTH LENSES IMAGE PLANE RESOLUTION (LINES PER MILLIMETER) FOR

FOCAL LENGTH - 90MM OBJECT DISTANCE- 75.FT (22.66H) MAGNIFICATION - 003953 -6 GROUP LENGTH 3.016HM (1137N.) -6 - 5 - 5 - 5 - 6 - 13.6 -6 - 7.9 15.8 31.6 53.126.5 -6 - 10.0 19.9 39.8 79.7 159.4 5.0 10.0 19.9 39.8 79.7 159.4 5.0 11.2 22.4 44.7 89.4 178.4 5.0 11.2 22.4 44.7 89.4 178.4	POCAL LENGTH - 90NH OBJECT DISTANCE- 290.FT. 60.95M) -6 GROUP LENGTH- 1.126MM (.0441N.) -6 GROUP LENGTH- 1.126MM (.0441N.) -6 -5 -6 -5 -6 -3 86.8 169.8 338.8 119.9 23.7 47.4 94.9 189.8 338.8 113.8 226.6 33.3 106.8 239.1 473.2 16.8 33.6 67.1 134.2 268.4 536.8 16.8 37.7 75.3 150.6 301.3 602.5	FOCAL LENGTH - 90#H OSJECT DISTANCE + 400.FT; (121.92M) MAGNIFICATION + 600739 -6 GROUP LENGTH - 564MM(6022ZIN.) BROUP - 3 -2 -1 Z1.2 42.3 64.6 169.2 336.4 676.4 Z3.7 47.5 95.0 189.9 378.4 658.8 Z9.9 59.8 139.6 233.8 478.4 957.2 Z9.9 59.8 139.6 233.3 478.4 957.2 Z3.7 47.5 150.7 301.5 503.0 999.9	FOCAL LENGTH - 90MK OBJECT DISTANCE-1000.FT.(304.80H) NAGNIFICATION - 000285 -6 GROUP LENGTH-2258M(.00891N.) S2.9 105.8 211.6 423.2 846.4 999.9 59.4 118.8 231.6 423.2 846.4 999.9 66.7 132.2 266.6 533.2 899.9 999.9 76.8 145.6 299.3 598.8 999.9 999.9 76.8 145.6 299.3 598.8 999.9 999.9 94.3 188.5 377.0 754.1 969.9 999.9
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90MM	90M!1 *001972 *505MH(*0592IW,) =3 =2 63.4 126.7 253.5 71.1 152.3 284.6 79.8 159.7 319.4 89.6 179.3 358.5 100.5 201.2 402.4	900MM •000965 •752MM(•0296IN•) -3 -2 -1 126.9 253.8 507.5 159.9 319.7 639.4 179.4 358.9 717.7 201.4 402.8 805.6	90MM 750.FT.6 228.60M) .000394 .301MM(.01181N.) .301MM(.01181N.) .356.3 712.5 999.9 399.9 999.9 565.5 999.9 999.9
	FOCAL LENGTH OBJECT DISTANCE 1 HAGNIFICATION 6 GROUP LENGTH 1 6 GROUP 7-9 15:8 31.7 6 7-9 17:8 35:6 7 10:0 20:0 39:9 7 11:2 22:4 44:8 12:6 25:5 50:3 10 14:1 28:2 56:5 1;	0CAL LEN ADMIFTCA 6 GROUP 5-6 31- 7-8 33- 7-8 33- 7-9 40- 75-2 50-	FOCAL LENGTH — OHJECT DISTANCE— MAGNIFICATION — AGNOUP LENGTH— BROUP — AS 39.7 70.3 158.7 44.5 80.1 178.1 50.0 100.0 190.9 50.0 126.0 251.9 70.7 141.0 282.7
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90HH 255F1 (7.62H) -01 :7 91] OMF (.3590IN.) -3 -2 10.5 20.9 41.8 11.7 23.5 47.0 13.2 26.4 52.7 14.6 33.2 66.4 15.6 33.3 74.5	90PM 100.Ff. (30.48H) -002962 2-260MP (.0899IN.) -3 -2 -1 -2 -1 42.2 84.4 149.8 47.4 94.8 145.5 53.2 106.4 212.7 53.7 119.4 238.8 74.0 150.4 310.8	90PM 250.FT. (76.20 001182 902MP (.0354IN -3 -2 -1 105.7 231.0 472. 113.2 265.4 512. 157.8 335.6 512. 167.8 335.6 571.	900*** *******************************
2 1 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FOCAL LENGTH FOULD LENGTH FOUND LENGTH FOUND LENGTH FOUND FO		FCCAL LENGTH MAGNIFICATION GROUP LENGTH GROUP LENGTH GROUP LENGTH GROUP GRO
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高上に対象を よってもまる	医120mm 120mm 140mm 1		では 単 書 門 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日

NCE TS:FT: (22.96E) N	STANCE 200.FT. 60.95%; TION -001643 LENGTH 1.254MM .0494IN.) GROUP -3 -2 -1 3 42.7 85.4 170.8 341.4 9 53.8 107.6 215.2 430.3 2 60.4 120.8 241.5 483.0 9 67.8 135.6 271.1 542.2	1	ANCE 1000NM 100NM 100NM 1000.FT. (300.80M) 100NM 100
FOCAL LENGTH OBJECT DISTANCE MAGNIFICATION -6 GROUP LENGTH -6 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8	FOCAL LENGTH OBJECT DISTANCE- NAGNIFICATION 6 GROUP LENGTH- FOR 190 380 1007 213 427 120 2840 53.8 1304 2649 53.8 1501 3002 6004	FOCAL LENGTH OBJECT DISTANCE- MAGNIFICATION	FOCAL LENGTH OBJECT DISTANCE MAGNIFICATION -6 GRCUP LENGTH -6
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100MM 50-FT (15-244) -006605 5-040MM (1964IN.) -3 -2 -1 18-9 37-8 75-7 23-8 47-7 95-4 26-8 53-5 107-1 30-0 69-1 120-2	150.FYc (45.72M) -002192 1.673MM (.0658IN.) -3 -2 57.0 14.1 228.1 64.0 128.0 256.0 71.8 43.7 287.4 80.6 161.3 322.6 90.5 181.0 362.1	100M% ************************************	100MM "50.FT. (228.60M) "336MM (.0131IN.) "35.MM (.0131IN.) "55.6 641.2 999.9 25.5 641.7 999.9 153.9 807.9 999.9 153.4 906.8 999.9 108.9 999.9
FOCAL LENGTH OHJECT DISTANCE HAGNIFICATION GROUP LENGTH CANDID CA	FDCAL LEMGTH OHJECT DISTANCE PAGNIFICATION	FOCAL LENGTH	FOCAL LENGTH
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100mm 25.f[e; 7.62m] -013.68 -013.68 -013.68 -013.68 -014.68 -015.69 -014.68 -015.69 -014.68 -015.7 -015.69 -015.7 -015.89 -015.89 -015.7 -015.89 -015.7 -015.89 -015.7 -015.89 -015.7 -015.89 -015.7 -015.89 -015.7 -015.89 -	1000 8	100×4 -250×11 (76.20%) -301414 1.003% (.03951%) -3 -2 -1 95.1 190.2 346.5 114.4 213.6 4.7.1 114.6 209.1 536.1 151.0 302.1 674.0 154.5 209.1 536.1 151.0 302.1 674.0	10028 500.67.6 152.4041 500.657 500.657 501.7 45.6 613.7 427.4 45.6 613.7 45.6 613.
# CCAL LFNGTS - OCCAL LFNGTS - OCCAL LFNGTS - OCCAT	FUCAL LEAGEM	FUCAL LENGTH ONLECT HISTANCE	FOCAL LENGTH OJJECT UISTANCE- MAGNIFICATION 6 GROIP LENITH- CAUGH6 GROIP5 23.8 47.6 95.4 23.8 47.6 119.8 33.7 77.3 134.9 33.8 75.6 151.1 42.4 15.8 155.1
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IMAGE PLANE RESOLUTION (LINES PER MILLIMETER) FOR 10544 FOCAL LENGTH LENSES

FOCAL LENGTH - 105MM OBJECT DISTANCE. 75.FT. (22.86M) MAGNIFICATION - 004614 MAGNIFICATION	FOCAL LENGTH - 105MM OBJECT DISTANCE - 200.FT.: 60.96M) MAGNIFICATION - 001785 -6 GROUP LENGTH 1.316MM 0518IN.) 6.1 18.1 36.2 72.4 144.9 289.8 11.4 22.3 40.7 81.3 162.6 328.8 11.4 28.6 51.2 102.8 204.9 40.9 12.8 25.6 51.2 102.8 204.9 40.9 14.4 28.8 57.5 115.0 230.0 460.0 16.1 32.3 64.5 129.1 298.2 516.3	FOCAL LENGTH - 105MM OBJECT DISTANCE - 400.FT. (121.92M) MAGNIFICATION - 000862 -6 GROUP LENGTH - 558MH (0289IN.) GROUP LENGTH - 558MH (0289IN.) 18.1 36.3 72.5 145.0 290.0 580.1 20.3 40.7 81.4 162.0 325.6 651.1 22.6 45.7 91.4 162.0 325.6 651.1 22.6 51.3 102.5 2005.1 410.0 200.0 32.3 60.6 129.2 258.4 516.8 999.0	FOCAL LENGTH - 105KM OBJECT DISTANCE - 1000-FT (304-80K) MAGNIFICATION - 000346 GROUP LENGTH .263KM (0104 IN.) 6 080
しとち ドラド ラット	M	ብግጠል ጠ 3 C L	りょれるだろう
105MM 50.FT (15.24M) .006938 5.293MM (.2084IN.) .3 .2 .2 18.0 36.0 72.1 20.2 40.5 30.9 22.7 45.4 90.8 25.5 51.0 101.9 26.6 57.2 114.4 32.1 64.2 128.4	105MM 150.FT.(45.72M) .002302 1.756MM(.0691IN.) .3 .2 54.3 108.6 217.2 61.0 121.9 243.8 61.0 121.9 243.8 66.2 172.4 344.6 96.8 193.5 387.0	105MM 300.FTe(91.44M) 00115C .877MM(0345IN.) -3 -2 -1 108.7 217.5 434.9 122.1 244.1 488.2 137.0 274.0 548.0 153.6 307.5 615.1 172.6 345.2 690.4 193.7 387.5 775.0	105MM 750.FT.(226.60M) -0000460 -351MM(-01381N.) -3 -2 -1 272.0 544.0 999.9 345.7 685.4 999.9 344.7 769.4 999.9 431.8 863.6 999.9 431.8 863.6 999.9
FOCAL LENGTH ORJECT DISTANCE- HAGNIFICATION 6 GROUP LENGTH65 6 ROUP 2-3 4-5 9-0 2-5 5-1 10-1 2-6 5-1 10-1 2-6 5-1 10-1 2-6 5-1 10-1 2-6 5-1 10-1 2-6 5-1 10-1 2-6 5-1 10-1 3-6 5-1 10-1 3-6 6-1 10-1	FOCAL LENGTH ORJECT DISTANCE- HAGMIFICATION GROUP LENGTH GROUP 6-8 13-6 27-2 7-6 17-1 34-2 8-6 17-1 34-2 9-6 17-1 34-2 16-8 21-6 43-1 12-1 24-2 48-4	FOCAL LENGIM — ORJECT OISTANCE - WAGNIFICATION — 6 GROUP LENGIM — 6 13.6 27.2 54.0 17.1 34.2 56.5 11.0 17.1 34.2 56.5 21.6 43.2 86.3 24.2 48.4 96.9	FOCAL LENGTH OBJECT DISTANCE MAGNIFICATION
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105FM 25.FT. 7.62M) -013572 10.661M#(.e197140) -3 -2 -1 8.9 17.9 35.6 16.0 20.1 40.2 112.7 25.3 50.6 14.2 28.4 50.8 15.9 31.9 A3.8	en e meentono	105## 250.FT. (76.20%) -601380 1.053#F(-0.4141%) -3	105FM 5006F9 • 000669 • 526FF (• 0207IN•) -3 = 2 -1 IM1•3 362• 7,562 2356• 4 555• 9939 267• 8 512• 8 999• 9 267• 8 512• 8 999• 9
FOCAL LENGTH MAGNIFICATION GGOUP LENGTH A GGOUP LENGTH L.1 2.2 4.5 L.1 2.5 5.0 L.1 2.5 5.0 L.1 2.6 5.0	FOCAL LENGTH OBJECT DISTANCE	FOCAL LEAGTH AGNIST AGNIS	FOCAL LENGTH — GUSTANCE— MAGNIFICATION — GAOUP LENGTH — GAOUP LENGTH — 52.7 45.3 90.7 25.4 50.9 1ul. 8 25.4 50.4 fo.8 161.5
多多中心 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	电子的电子的电子的电子的电子的电子的电子的电子的电子的电子的电子的电子的电子的电	# # # # # # # # # # # # # # # # # # #	ጠግጠዝጠ 2 m ት ሀ ሀ ላ ሀ ላ

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FOCAL LENGTH 127MM OBJECT DISTANCE 75°FT.(22.06M) HAGNIFICATION 005587	FOCAL LENGTH 127MM OBJECT DISTANCE 200°FT*(60.06M) MAGNIFICATION 002008 GROUP LENGTH 1.593MM(.0627IN*) GROUP	FOCAL LENGTH - 127MM OBJECT DISTANCE - 400:71.(121.02M) HAGNIFICATION - 001843 -6 GROUP LENGTH - 796MM(.0313IN.) 6 GROUP LENGTH - 796MM(.0313IN.) 15.0 30.0 59.9 119.9 239.7 479.5 16.8 33.6 67.3 134.6 269.1 538.8 18.9 37.8 75.5 151.0 302.1 604.1 23.8 47.6 95.1 190.3 360.6 761.2 26.7 53.4 106.8 213.6 427.2 854.4	FOCAL LENGTH - 127MM OBJECT DISTANCE- 1000.FT. (394.80M) MAGNIFICATION - 000417 -6 GROUP LENGTH- 318MM (.0125IN.) GROUP - 3 - 4 -3 - 5 - 4 -3 - 5 - 4 -3 - 5 - 4 -3 - 5 - 4 -3 - 5 - 4 -3 - 5 - 5 -3 - 5 - 5 -3 - 5 - 5 -3 - 5 - 5 -3 - 5 - 5 -3
ጠግጠጀጠጟጕ ሣሪካፋክው	ጠግሮ X E Z F ማሪካ ቀርካ ላ	ጠ ገጠ ፤ ጠ ፯ ኵ ማ ነው ቁ ኒኮ ላ	መመመ መመ ተመ መ ተመ ተ
1274H 50.FT.(15.24H) .008403 6.412HN(.2524IN.) -3 .2 .1 14.9 .29.7 59.5 16.7 33.4 66.8 18.7 33.4 66.8 18.7 37.5 75.0 21.0 42.1 84.1 23.6 57.2 94.5	127MH 150.FT.(45.72M) .002786 2.125MM(.08371N.) -3 -2 -1 44.9 89.7 179.5 50.5 113.1 226.2 56.5 113.1 226.2 56.5 12.9 253.9 71.2 142.5 284.9	127MM 300.5T+(91.44M) -001391 1.061MM(.0418IN.) -3 -2 -1 69.9 179.7 359.5 113.2 226.5 452.9 127.1 254.2 506.4 142.7 285.3 570.7	127HH -000556 -424MH - G167IN.) -3 -2 -1 224-9 449-7 899-9 283-3 565-6 999-9 318-0 636-0 999-9 318-0 713-9 999-9
FOCAL LENGTH CALCEL MAGNIFICATION	FOCAL LENGTH	FOCAL LENGTH	FOCAL LENGTH —— ORJECT DISTANCE— HAGMIFICATION ——
	ው በቅ የነው ፦ ማ ና ሠ ፤ ህር ሠ	ភាពាការកោ % » ១៩១៣ ១៩១៩	ጠ ግጥ £ ጠ ፍ ሙ ማሪካ ቁ የህ ወ
12.4328f (1.024) 25.8f (1.024) 12.4328f (.509114.) 13.4 14.7 24.5 14.4 14.7 24.5 10.4 20.4 33.1	100-ff: (30-48M) 100-ff: (30-48M) 100-ff: (30-48M) 100-ff: (30-4M) 100	12784 - 750-61-1	- 500.FT (152.eGM; - 635%F (152.eGM; - 635%F (152.eGM; - 635%F (152.eGM; - 164.2 93%F 599.5 F 186.2 93%F 599.5 F 186.3 377.7 755.3 F 186.3 377.7 755.3 F 186.3 377.7 755.3 F 186.3 377.7 755.3 F 186.3 377.7 755.3
FOCAL LENGTH ORUECT PISTANCE MAGNIFICATIO	FOCAL LENGTH CAJECT DISTANCE- MAGNIFICATIO-4 6 G40.P LFNGTH- 6 6.0.P LFNGTH- 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	FOCAL LENGTH GGALECT 11574×CE- MAGY1FICATION O GGOTH LENGTH- O-CSS 10.8 23.0 47.0 11.8 23.0 47.0 11.8 23.0 47.0 11.8 23.0 47.0 11.8 23.0 47.0	FOCAL LEAGIN — OBJECT DISSEACE— MAGNIF CATION— 6 GROUP LEAGIN— 6 GROUP LEAGIN— 6 19 1 17.5 74.9 21.0 42.1 23.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 24.5 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 219.4 23.4 219.4 23.4 219.4 23.4 219.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23
でいった まんりょう かっちゅう かっちゅう しょうしょう しゅうしゅ しゅうしゅ しゅうしゅ しゅうしゅ しゅうしゅ しゅうしゅう しゅう	። ተመደመድ መመመ መመመ	5.75	መግመ ያ ጠናው ትንቅታ

FOCAL LENGTH	FCCAL LENGTH - 135MM OBJECT DISTANCE: 200°FT (60.96M) MAGNIFICATION - 0002219 -6 GROUF LENGTH- 1.603HH (.06671N.) -6 -5455125 7.0 14.1 28.2 56.3 112.6 225.9 7.9 15.8 31.6 53.2 126.4 225.9 8.9 17.7 35.8 71.0 141.9 283.8 10.0 19.9 35.8 70.6 159.3 318.6 11.2 22.4 44.7 89.4 178.8 357.6 12.5 25.1 50.2 100.3 200.7 401.4	FOCAL LENGTH = 135MM OBJECT DISTANCE + 000.FT.4 121.92MJ HAGNIFICATION = 001109 -6 GROUF LENGTH = 046MM(.0331N.) GROUP = 3.66.4 112.8 225.8 451.1 15.8 31.6 63.3 126.6 223.2 506.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3 17.8 35.5 71.0 142.1 284.1 566.3	FOCAL LENGTH 135HM HAGNIFICATION 1000413 -6 GROUP LENGTH 336HH (.0133IN.) GROUP 336HH (.0133IN.) GROUP 336HH (.0133IN.) 35.3 70.5 141.0 202.1 564.2 999.9 44.4 88.9 177.7 355.4 710.8 999.9 45.6 99.7 199.5 396.9 797.9 999.9 56.0 112.0 223.9 447.8 895.6 999.9
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135MH 50.FT.(15.24M) .016937 .819MH(.2685IN.) 14.0 28.0 55.9 15.7 31.4 65.8 17.6 35.2 70.6 19.8 39.6 79.1 22.2 44.4 88.8 24.9 49.8 99.7	135MM *** 00296.2 *** 260MM (*** 08901N**) *** 250MM (*** 08901N**) ** 250MM (*** 08901N**) *** 250MM (*** 08901N**)	135MH 300.FT.(91.444) .001479 .128HM(.044IN.) -321 84.5 169.8 379.6 06.5 213.0 426.1 19.6 239.1 470.2 34.2 268.4 536.8 50.6 301.3 602.5	13544 **50.FT*(228.60M) **51MM(**01781N*) **51MM(**01781N*) **3 -2 -1 211-5 423-1 846*2 266*5 533-1 999*9 266*5 533-1 999*9 299*2 598*3 999*9 335*8 671*6 999*9
FOCAL LENGTH ONJECT DISTANCE MAGNIFICATION	FOCAL LENGTH OHJECT DISTANCE HEGNIFICATION GROUP LENGTH GROUP LENGTH GROUP	FOCAL LENGTH — DRJECT DISTANCE— MAGNIFICATION — 6. GROUP LENGTH— 1 6.0 — 5 10.6 23.1 42.3 11.9 23.7 47.4 13.3 26.6 53.3 14.9 29.9 59.8 11.8 37.7 75.3 11.8 37.7 75.3	FOCAL LENGTH — GBJECT DISTANCE— A GROUP LENGTH— GROUP — 5 50 103 8 2 50 4 113 3 2 33 5 50 6 113 3 3 2 37 4 74 8 100 5 2 47 1 9 3 47 1 9
としょ 4 でしちらららる ちゅうちゅう	መግጣደስ ዩኮ ማስመቀመው	としております。 よこうようらい	ጠግክአጠነት መብጫቀክብ
133564 25, F1 (7.024) 018036 03.75287 (4414140) 43	13099 100.671 (30.684) 3.4944 (33.12.4 3.4944 (33.12.4 31.5 63.1 12.4 31.5 63.1 12.4 35.4 70.4 141.6 34.7 79.5 155.9 44.6 89.0 178.4	13554 256.6 [1 75.20M) 001/75 1.35447 (,053314.) 3.3 -2 -1 70.4 160.9 241.7 79.1 158.1 316.2 85.7 177.5 354.9 99.6 199.2 394.6 111.8 223.6 997.2	135FM 500.FI.(152.40M) .000087 .676MF(.026FIN.) .3 .3 .4 .4 .5 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6
FUCAL LENGTH	FOCAL LEAGIN GAURET UISIANCE TO GAUNT LEAGIN GAUNT GAUNT BANGTAN GAUNT BANGTAN TO 150 BANGTAN TO 150 BANGTAN TO 150 BANGTAN TO 150 BANGTAN TO 150 TO	FOCAL LENGIA DUJECT UISTANCE— #4641F1CATIUM— -5 GROVE LEATHW— GROUD -6 -5 GROUD HOB 17-6 35-7 11-1 22-7 44-4 12-5 24-0 55-4 18-7 31-4 52-7	FOCAL LENGIN ONJECT DISTANCE *** GHOUP LENGIN -** GHOUP LENGIN -** A** A** 17.6 15.2 70.5 19.8 19.5 79.1 22.2 44.8 18.4 28.9 49.8 125.4 31.4 47.8 125.4
ラント ロンチャン・	~ K F 4 F 4 ~ K L M L M L M	医	~ N F + F < W & W & W & F

IMAGE PLANE MESOLUTION (LIMES PER MILLIMETER) FOR 150MM FOCAL LENGTH LEMSES

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FOCAL LENGTH - 150MM CBJECT DISTANCE 100.FT. (30.48M) MAGNIFICATION - 00.446 -6 GROUP LEMGTW 3.773MM (14.867Nc) 68.00 - 5 -4 -3 -2 -4 -3 -2 -1 -1 -2 -4 -5 -4 -5 -4 -5 -4 -5 -4 -5 -4 -5 -4 -5 -5 -4	FOCAL LENGTH - 156MM OBJECT DISTANCE - 360.FT.(01.44M) MAGNIFICATION - 0.61643 -6. GROUP LENGTH- 1.254MM(.0494IN.) GROUP - 0.5 19.0 38.0 76.1 152.1 304.3 12.0 24.0 47.9 98.6 191.7 383.4 13.4 26.9 53.8 107.6 215.2 430.3 5 15.1 30.2 60.4 120.8 241.5 463.0	FOCAL LENGTH - 150NM OBJECT DISTANCE - 750.FT. (228.60M) MAGNIFICATION - 000657 -6 GROUP LENGTH - 501MM (.0197IN.) GROUP LENGTH - 501MM (.0197IN.) 6 47.6 95.2 190.4 380.8 761.5 2 26.7 53.4 106.8 213.7 427.4 854.8 3 30.0 60.0 119.9 239.9 479.7 959.9 4 33.7 67.3 134.6 269.2 838.5 999.9 5 37.6 75.5 151.1 302.2 678.4 999.9	FOCAL LENGTH = 150MM 0BJECT DISTANCE = 2000.FT.(60%.60M) MAGNIFICATION = .000246 -6 GROUP LENGTH = .186MM(.0674IN.) GROUP = .3 -2 .4 .5 .5 .5 .5 .7 .9 .99 .9 .99 .9 .1 .3 .142.5 .285.0 .570.1 .999.9 .999.9 .99 .9 .99 .9 .99 .9 .99 .9 .
M TM Z M Z ←	これ ままれる	M	こしまげ 31
150MM 75.F7.6 (22.86H) .006605 5.040MM (.1984IN.) -3 -2 -1 21.2 47.8 F5.7 21.2 47.8 F5.7 21.2 47.5 65.0 23.6 47.7 95.4 26.6 53.5 107.1 30.0 60.1 120.2	150MH 200.FT.(60.96M) -00246T 1.682MM[.07411N.] 25.9 113.8 202.7 55.9 113.8 222.5 63.8 127.7 255.4 71.7 143.3 285.7 60.4 160.9 321.8	150MH 500-FT (152.46M) -000965 -752MM (0296EN.) -3 -2 126.9 253.8 507.5 126.9 259.8 569.7 159.9 319.7 639.4 179.4 358.9 717.7 201.4 402.8 805.6	1500.FT.(457.20M) 1500.FT.(457.20M) 250KM(.00991W.) 380.9 7618 999.9 479.9 959.7 999.9 538.6 999.9 999.9 678.6 999.9 999.9
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FOCAL LENGIM - 150MM DOJECT DISTANCE - 50,FT1 (15,20M) MAGNIFICATION - 00,990 -6 GHOUP LENGIM - 7.534MM (.268A1N.) GHOUP - 3 12.6 25.2 - 1 E 1.6 3.5 7.1 14.1 28.2 55.5 2.2 4.4 8.9 17.6 35.6 71.1 E 2.5 5.0 10.0 20.0 39.9 74.5 A 2.6 5.0 10.0 20.0 39.9 74.5 A	FOCAL LENGIM — 150 PM OBJECT DISTANCE— 150 FT: 65.72M) MAGNIFICATION— 003292 TO GROUP LENGIM— 2.512 PM (.0049 LM.) TO GROUP 2.512 PM (.0049 LM.) TO GROUP 34.0 76.0 151.9 S. 10.7 21.3 42.6 85.3 170.5 CO 23.4 47.8 85.7 191.6 T. 5 15.1 30.1 60.3 120.4 214.8 F. 5 15.1 30.1 60.3 120.4 214.8 F. 5 15.1 30.1 60.3 120.4 214.8 F. 5 15.1 30.1 60.3 120.4 214.8	SOPH 150PH 15192H 1519	LENGTH - 150PH LUSTANCE- 1000-F1.(304.80M) FICATION - 000492 GHOUP - 376MY (01401h.) 65 -4 253.9 507.9 959.9 71.2 142.5 285.0 509.9 959.9 71.2 142.5 285.0 509.9 959.9 70.0 159.4 319.9 639.7 999.9 100.M Z01.5 401.0 606.0 999.9
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IMAGE PLANE PESSLUTIUM ILINES PER MILLIMETER/FOR 188MM FOCAL LENGTH LENSES

16944 189.FT.(38.48H) .065941 5334H(.1765[M.)	733	53.6 166.	89.8 119.	12:	Marie San	1000FT - (1100FT)	, ,		~	63.4 126.7 253.5	159.7 319.	179.3 350.	201.2 402.	12.9 225.8 451.	10041	750	.000764	9	7	A. 4 117. 9 634.	7	389.7 786.	**************************************	•	100#	2000.FT. (600.60M)	.000295	. 225MM 6089IN.)	•		100 - 100 A.P.N.	700 700 700		71.0 000.0 000	54.1 999.9 999.
FOCAL LENGTH OBJECT DISTANCE- MAGMIFICATION 6 GROUP LENGTH- 4	, N. 60		7. 4.1	ďr.	FOCAL LENGIN	OBJECT DISTANCE-	-6 GROUP LENGTH-	GROUP	'n,	7.0 15.8 31.7	0.02 20.0	22.4	2.6 25.2 50.3	4.1 28.2 56.5	FOCAL LENGTH -	OBJECT DISTANCE.	HAGNIFICATION -	-6 GROUP LENGTH-		70.7	44.5	50.0 99.9	2001 11202	141.3	FOCAL LENGTH -	DISTANCE	ICATION -	UP LEN			9-112 B-601 4-2	7 130 5 237 65	133.5 6000	A.0 168.0 335.V	4.3 166.5 377.0
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180%K 75.FT*(22.86H) 607937 055WM .2384IN.)	-3 -2 -1 5.7 33.5 63.	7.7 35.4 70.0	2,3 +4.5 89.	5.0 50.0 100 8.1 56.1 112		00.FT.(60.96M)			2	42.2 B4.4 168.8	106.4 21	119.4 23	134.0 26	150.4 30	E E		001182	8	0		237.3 474	3.2 266.4 532	9.5 294.0 598	B.4 376.7	3 3 0 6	4	46E000	STOLKE COLLOIN.)		1-3- 6-	7.4 634.7 999.	6.3 712.5 999.	000 L'VON N. M.	2 2 209 9 299	99.9 999
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14098 54.6fi. 15.2481 4.11452 9.12088 (4154.184)	- 2 - C - C - C - C - C - C - C - C - C	23.5	000 C 000 W	10.6 MM.7 50.6 18.6 MY. 4 76.5	**************************************	150.F1.(45.72M)	#63#600 ·			6 63-3 176	73. C. 1. C.		2 100-4 200	3 112.7 275	3 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100 TO 1 TO 100	001470	1.178## . D.4.4.1M.)		4 (- T	213.0	10.6 239.1	134.2 266.4 536.0 156.6 301.3 662.5	3 4 6 6 7					- Z-	11.5 423.1	37.5 474.9	A6.5 5 533.2	44.2 340.3	376.9 753.8 999.9
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IMAGE MLA E NESGLUTIUM (LINES PER MILLIMETER) FOR - 200 KM FOCAL LENGTH LENSES

FOCAL LENGTH = 200MM OBJECT DISTANCE- 100.FT. (30.48M) HAGNIFICATION = .006605 -6 GROUP LENGTH- 5.040MM (.1984IN.) GROUP LENGTH- 5.040MM (.1984IN.) A5 -4 7 9.5 18.9 37.8 75.7 B. 6.0 11.9 23.6 47.7 95.0	FOCAL LENGTH - 200MM OBJECT DISTANCE - 300 FT (01.04M) MAGNIFICATION002102 -6 GROUP LENGTH 1.673MM (.06581N.) GROUP LENGTH - 1.673MM (.06581N.) -6 GROUP LENGTH - 1.673MM (.06581N.) 0	FOCAL LENGTH - 200MH OBJECT DISTANCE 750-FT (228-60M) MAGNIFICATION - 0.476 -6 GROUP LE! TH- 668MM (0263IN+) GROUP LE! TH- 668MM (0263IN+) -6 GROUP LE! TH- 668MM (0263IN+) -8 -5 -6 -5 -7 17.8 35.7 71.4 142.7 285.8 571.0 20.0 40.1 80.1 160.2 320.5 648.9 22.5 45.0 89.9 179.9 389.7 719.4 25.2 50.5 100.9 201.9 403.6 648.9 28.3 56.7 113.3 226.6 453.2 605.4 31.8 63.6 127.2 256.4 508.7 999.9	FOCAL LENGTH
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МСЕ— 75.FT; (22.86H) М = .008826 .0TH— 6.734МИ (.2651IN.) .0TH— 6.734MI (.265IN.) .0TH— 6.734MI (.265I	A BONCE - 200MM - 200MM - 003292 - 0032	A 200MM	TANCE 1500.FT (457.20M) 10N000438 ENGTH334MF (01311N.) GHOUP - 3 -2 -1 142.8 255.6 571.2 999.9 170.9 359.9 719.7 999.9 170.9 359.9 719.7 999.9 170.9 359.9 719.7 999.9
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มู้รูปัญ เพิ่มเลี้ย	FOCAL LENGIA DAGATE TATAGE BAGATE TATAGE BAGATE TENTITE BAGATE BA	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FUCAL LENGTH NAGATP 1CA 150-16
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IMAGE PLA-E RESOLUTION (LINES PEM MILLIMETER) FOR 205MM FOCAL LENGTH LENSES

IMAGE PLANE MESOLUTION (LINES PEM MILLINETER) FOR 205MM FOCAL LENGTH LENSES

STANCE 100 FT (30,40H) TION - 006771 LENGTH 5.166HX (2034IN.) 6ROUP - 3 6 7 7 8 6 7 8 6 8 8 9 9 8 1 3 1 1 2 2 1 3 1 8 8 8 9 8 8 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 3	967768	000 000 000 000 000 000 000 000 000 00	(STANCE - 2000.FT. (609.60M) ATION - 000336 LENGTH - 257MH (010.IN.) GROUP - 257MH (010.IN.) 1 85.8 371.6 743.2 999.9 2 185.8 371.6 743.2 999.9 3 208.6 417.1 534.2 999.9 4 268.8 525.3 999.9 999.9 5 294.9 859.8 999.9 999.9 5 331.0 662.1 999.9 999.9
TOCAL LENGTH OBJECT DISTANCE MAGNIFICALISANCE AGNOUP LENGTH AGNOUP LENGT	FOCAL LENG OBJECT LENG MAGNIFICAT 16 GROUP L 7.0 13.9 7.0 13.9 7.0 13.9 11.0 22.1 12.4 24.8	08JECT DISTANCE- MAGNIFICATION 6 GROUP LENGTH- 6 GROUP S 17.4 34.8 69.6 1 19.5 39.1 78.2 1 21.9 43.9 67.7 1 21.6 49.2 98.5 1 27.6 55.3 110.5 31.0 62.0 124.1 2	FOCAL LENG OBJECT DIS MAGNIFICAT -6 GROUP L -6 6 92.9 55.1 104.3 55.5 117.0 55.5 117.0 55.8 165.5
ጠ ገጠ ፷ ፫ % ፦ ≒ // ພ 4 ሺ ቀ	→ 2 M M M F M F M F M M M M M M M M M M M	しい はいまいきょう ちょうしょう	ゴリアはご 3 → S M S M T M M M
205MM 75.FT. (22.86M) .009049 6.904MM (.2718IN.) -3	5 5 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	500.FT.(152.40w) .0038M(.0405IN.) -322 92.8 185.6 371.2 16.2 208.3 416.7 16.2 256.5 525.0 47.3 294.6 589.3 65.4 330.7 661.4	205WH 1500.FT.(457.20H) .000449 .3.242MH(.0135IN.) .321 278.7 557.3 999.9 351.1 702.2 999.9 351.1 702.2 999.9 442.3 884.7 999.9 442.3 884.7 999.9
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10.0.37% (15.20%) 10.0.37% (0.0.47) 10.3.37% (0.0.47) 10.3.20.0 010.2 11.0.3.20.0 010.2 11.0.4.20.1 00.2 11.0.5.20.1 56.2 11.0.5.20.1 56.2			205FM 000053 000053 051406 (020,1Ne) 1457 37165 7420 21459 31765 0 21460 4060 4760 25460 4060 4760 25668 5896 4996 25668 5896 4996 25668 5896 4996
FUCAL LEFGIA OSUECT DISTA-CR- MACATFICATIO	FUCAL FFGIN OBJECT OBJE	00.4ECT U1514.CE. ##GG41F1CATIU ##G641F1CATIU ##G641F1CAT	FOCAL LENGIN - OBJECT 115 A. GE - 1 AGNIFICATION - A G-O'D LFRIGH - G-O'D LFRIGH
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2006938 ************************************	210MM 300.FT. (41.44M) 0002302 1.756MM(306913N.) -3 108.6 217.8 61.0 121.9 243.8 68.4 136.8 273.8 66.4 136.8 273.8 66.2 172.4 344.8	210MM 750.FT. (220.60M) .000919 .702MM (.0276IN.) .352.6 3052.2 615.4 192.3 384.5 769.0 215.8 431.6 863.2 242.2 484.5 968.9	2000:FT. (609.60H) .000345 .263MM(.01041N.) .362.7 725.5 999.9 407.2 814.0 999.9 575.6 999.9 999.9 575.6 999.9 999.9
FOCAL LENGTH OBJECT DISTANCE. MAGNIFICATION 6 GROUP LENGTH 6 ROUP 6 GROUP 6 GRO	FOCAL LENGTH OBJECT DISTANCE HAGNIFICATION 6. OROUP LENGTH 1.0. 0ROUP 6. B. 13.6. 27.2 30.5 8.6 17.1 34.2 90.6 19.2 30.5 30.5 10.8 21.6 43.1 12.1 24.2 40.4	FOCAL LENGTH OBLECT DISTANCE HAGNIFICATION 6 GROUP LENGTH 6 GROUP LENGTH 6 GROUP 17.0 34.0 68.0 19.1 36.1 56.0 121.1 30.3 60.6 121.1	FOCAL LENGTH OBJECT DISTANCE: HAGNIFICATION
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210MM 75.FT.6 (22.86M) .009272 -3 -2 -1 13.5 27.0 53.9 15.1 30.3 60.5 17.0 34.0 67.9 19.1 38.1 76.3 21.4 42.8 85.6 24.0 48.0 96.1	210MH 200.FT.(60.96M) .003457 2.638MM(.1038IN.) -3 -2 -1 36.2 72.3 144.6 45.6 91.2 162.4 45.6 91.1 182.2 51.1 102.3 204.6 57.4 114.8 229.6 64.4 128.9 257.7	210MM 500.FT.(152.40M) 001380 0033MM(004141N.) -3 -2 90.6 181.2 362.4 01.7 203.4 406.7 14.1 228.3 456.5 14.1 228.3 456.5 28.1 256.2 512.5 43.8 287.6 575.7	2104M .000460 .351MH(.01381N.) .351MH(.01381N.) .3520 544.0 999.9 362.7 685.4 999.9 364.7 769.4 999.9 431.8 863.6 999.9
FOCAL LENGTH OFFECT DISTANCE— HAGNIFICATION — GROUP LENGTH— GROUP LENGTH— 1.7 3.0 7.0 6.7 1.9 3.0 7.0 6.7 1.9 3.0 7.0 6.7 1.9 3.0 7.0 8.5 2.1 4.2 8.5 2.1 5.4 10.7 3.0 5.0 12.0	FOCAL LENGTH ORJECT DISTANCE ABONIFICATION	FOCAL LENGTH — OPJECT DISTANCE— MAGNIFICATION — GROUP LENGTH— 1 GROUP — 5 GROUP LENGTH— 1 15-3 22-6 45-3 15-0 15-0 15-0 15-0 15-0 15-0 15-0 15-0	FOCAL LENGTH DHJECT DISTANCE PAGNIFICATION A GROUP LENGTH GROUP BA BA-
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210FW - 50.FT.(15.24M) - 013972 	210PK	210***	210** 1000.F1.(304.80*) 1000.F1.(304.80*) 1000.F1.(304.80*) 101.3 302.4 7.50.2 101.3 302.4 7.50.2 101.3 302.4 7.50.2 101.5 305.4 993.7 277.6 275.4 999.9
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INAGE PLANE HESTLITTUM (LINES PEM MILLIMETERIFOR 230MM FOCAL LENGTH LENSES

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FOCAL L	OBJECT (TATESTA .	2000	9	2.1	2.3	9.0		7 F	•	FOCAL LE	OBJECT	MAGNIF	10 M	4	, ,				9	9		FOCAL	OBJECT DIS	MAGNIF	-6 GRO		۱ م	ų.	• •	10	٠		ı	FOCAL LENG	OBJECT	MAGNIF	-0 GKD	4	•	•	N	S	~	73.8 1		
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IMAGE PLAWE RESOLUTION (LINES PEM MILLIMETER) FOR 300MM FOCAL LENGTH LENSES

3000M 200.57; (60.90M) 200.9066 3.773MM (14861N.) 23.3 5.2 28.3 56.5 101:1 28.4 56.5 101:1 28.7 71:5 143:6 45.0 90:1 160:5	300MM 500-FT-(152.40M) .001972 .001972 .001972 .019	300MM -0.00657 -0.00657 -501MM(.01971N.) -3 190.4 380.8 761.5 213.7 427.4 854.8 259.9 479.7 959.4 269.2 838.5 999.9 302.2 604.4 999.9	300NM • 10007FT • [1219.20M] • 188MM(• 06741N • 1 • 307.9 999.9 999.9 570.1 999.9 999.9 639.9 999.9 906.2 999.9 999.9 916.2 999.9 999.9 916.2 999.9 999.9
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IMAGE PLANE RESOLUTION (LINES PLM MILLIMETER) FOR 600MM FOCAL LENGTH LENSES

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IMAGE PLACE WESOLUTIUM (LINES PEM MILLIMETER) FOR 710MM FOCAL LENGTH LENSES

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IMAGE PLANE MESCLUTION (LINES PER MILLINETER) FOR 1200MM FOCAL LENGTH LENSES

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FRAGE FLATE RESOLUTION (LINES PER MILLIMETER) FOR 1600MM FOCAL LENGTH LENSES

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### SECTION (C)

TABULATION OF CAMERA SYSTEM MAGNIFICATIONS AND RESULTANT IMAGE SIZES

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*	X X	12.649	4	14.460	ě	5.32	5.76	6.23		7.19	7.70	8.21	8.75	9.30	9.86	0.45	1.04	1.66	2,30	2.45	3.62	4.31	5.03	25,765	5.52	
MAGNIFICATION		.017616	1834	1887	.019431	2000	2056	2116	2161	#	2310	2,00	2448	2519	'n	5669	2747	2024		9666	.030644	3	,032678	.033636	.034623	

### SECTION (D)

RESOLVING POWER DATA TABLES FOR SPECIFIC CAMERA MAGNIFICATIONS

## IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.125MM( .0049IN.) .125MM( .0049IN.) .777.2 999.9 999.9 999.9 999.9 999.9 999.9 999.9 999.9 999.9 999.9 999.9	.134MH( .0083IN.) .134MH( .0083IN.) .127 494 9 994 9 896 9 999 9 999 9 999 9 999 9 999 9	.147KM( .005&IN.) .147KM( .005&IN.) .2
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IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

MAGNIFICATION000209 -6 GROUP LENGTH160MMf .0053IN.) -6 -5 -5 -3 -2 -1 -2 -3 -4 -5 -5 -1 -5 -5 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	## GROUP LENGTH 174MM ( .00691N.)  ## 6.0 FROUP	##GNIFICATION000248  -6 GROUP LENGTH100MH( .0075IN.)  -6 GROUP100MH( .0075IN.)  -7	MAGNIFICATION000270 -6 GROUP LENGTH207MM( .00821N.) -6 .5 .5 .4 .20 .20 .1 562.1 924.3 999.9 54.8 135.5 231.1 562.1 924.3 999.9 54.8 125.6 221.1 582.3 999.9 999.9 57.8 145.6 221.1 582.3 999.9 999.9 61.7 183.4 326.8 653.6 999.9 999.9 91.7 183.4 366.8 733.6 999.9 999.9
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MAGNIFICATION	MAGNIFICATION	MAGNIFICATION — —6 GROUP LENGTH— 6 64.8 129.7 259.4 72.8 145.6 291.1 81.7 163.4 366.8 102.9 205.9 411.7 115.5 231.1 462.1	MAGNIFICATION 6 GROUP LENGTH 59-5 118-5 237-8 66-7 133-5 267-0 74-9 149-8 299-7 64-1 168-8 299-7 94-4 168-8 377-5 105-9 211-9 423-8
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#AGNIFICATION—6 GIOUP LENG -6 GIOUP LENG GI E 2 69.1 176.2 39 E 3 100.0 200.0 43 E 4 112.0 200.0 43 E 5 126.0 252.0 50 T 6 141.4 232.6 50	MAGRIFICATION	#AGNIFICATION #6 GAOUP LENG #6 GAOUP LENG #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #	#AGNIFICATION - 6 GROUP LENG - 6 GROUP LENG - 6 GROUP LENG - 7

IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

CENOTH		TION000351 GROUPEGMM( .01061N.) GROUPEGMM( .01061N.) 1 178-2 356.4 712.7 999.9 2 224.5 449.0 878.0 999.9 6 282.0 504.0 899.9 999.9 4 282.8 565.7 999.9 999.9 7 317-5 635.0 999.9 999.9	ATION000383 LENGTH293KM( .0118IN.) BROUP -3 -E -1 -3 -4 -4 -6 -8 -6 -6 -6 -6 -7 183.4 326.8 733.6 999.9 -7 183.4 326.8 733.6 999.9 -8 231.1 452.1 924.9 999.9 -7 259.4 518.7 999.9 999.9
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.000287 .220MK( .0086IN.) .3 .2 .2 .3 436.2 872.4 999.9 489.6 999.9 999.9 616.9 999.9 999.9 616.9 999.9 999.9	**COCO312************************************	**************************************	.265KK ( .01121N.) .2
-6 GROUP LENGTH- -6 GROUP LENGTH- -6 -5 -6 54-5 109-1 218-1 61-2 122-4 24-8 65-6 173-1 346-2 97-2 194-3 388-6	MAGNIFICATION	##GMIFICATION	#AGNIFICATION == 6 GROUP LENGTH== 6 GROUP GROUP == 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6 =
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ON000278 MOTN213MF( .00841N.) GROUP -3 -2 224.5 449.0 898.0 999.9 252.0 504.0 999.9 999.9 217.5 435.7 999.9 999.9 217.5 435.7 999.9 999.9	ENGTH 233MF (.0092IM.)  #ROUTH 233MF (.0092IM.)  #ROUTH 3 2 1  #ROUTH 3 2 4  #ROUTH 3 3 4  #ROUTH 3 3 4  #ROUTH 4  #	ON = .000331 GNGTH= .254MMf .01001Ne) GOUP = .3 .62 188.8 377.5 755.1 998.9 237.8 475.7 955.4 999.9 299.7 599.3 999.9 999.9	CM = .000301 CMCTH .277MH ( .01001M+) CMCTH .377MH ( .01001M+) 173*1 346-2 592-4 173*1 346-2 592-4 186*1 546-6 777-1 999-9 R18*1 546-6 572-4 999-9 R18*1 546-6 599-9 R18*6 559-6 999-9 R18*6 559-6 999-9
MAGNIFICATION	######################################	MARKETICATION	### ##################################
をおするさ ^さ	といられる ひょうかい うまるみかん	<b>よれながまで</b> よりもとなっ	よいさ MAT ヨ

IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

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#AGNIFICATION = 680UP	#AGNIFICATION ####################################	## GATICATION = 6 920UP LENGTH	LENGTH BROWN
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IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

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## IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

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## GROUP   ENGL   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	#46%IFICATION	#46W1F1CATION	## GROUP CENGTH 6 GROUP CROST CAT CAT CAT CAT CAT CAT CAT CAT CAT CA
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64.00 LEAGUS LEA	GATFICATION 4 GAGUS LENGTH 6 GAGUS 6 12 2 25 4 6 12 2 25 4 6 1 16 2 32 4 7 1 16 2 32 4 7 20 4 40 4 8 22 9 45 4	GROUP LEAGTH- GROUP LEAGTH- GROUP LEAGTH- GROUP ROLL 6 13-2 20-5 6 13-2 20-5 6 13-2 20-5 6 14-9 20-7 7 37-5 8 71-0 82-0	# L L L L L L L L L L L L L L L L L L L
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## IMAGE PLANE RESOLUTION (LINES PER MILLINETER)

HAGNIFICATION003337 -6 GROUP LENGTH- 2.556MM( .1006IN.) -6 -5 -4 -3 -2 -1 5.3 10.5 21.0 42.0 04.1 166.2 5.9 11.8 23.6 47.2 94.4 186.8 6.6 13.2 26.5 53.0 105.9 211.9 7.4 14.9 29.7 59.5 118.9 237.8 8.3 16.7 33.4 66.7 133.5 267.0	MAGNIFICATION003639 -6 GROUP LENGTK- 2-766MM( .1097IN.) -6 -5 -6 -7 -2 -1 -6 -8 -6 17-2 -3 -6 71-1 154-2 5-4 10-8 21-6 43-3 66-6 173-1 6-1 12-1 24-3 48-6 97-2 194-3 6-8 13-6 27-3 54-5 109-1 218-1 7-7 15-3 30-6 61-2 122-4 244-8	MAGNIFICATION003969 -6 GROUP LENGTH- 3.040MM( .1197IN.) -6 -5 -6 -7 -4 -4 -3 -2 -1 3.9 7.9 15.7 31.5 63.0 126.0 4.4 8.8 17.7 35.4 70.7 141.4 5.6 11.1 22.3 44.5 89.1 178.2 6.2 12.5 25.0 50.0 100.0 200.0 7.0 14.0 28.1 56.1 112.2 224.5	#AGNIFICATION004328 #6 GROUP LENGTH. 3,315MM( ,1305IN.) #6 #5 #4 #5 #4 28.9 57.8 115.5 #4: 8: 16.2 32.4 64.8 129.7 #5: 9: 18.2 26.4 72.8 145.5 5: 1 10.5 22.9 45.9 91.7 163.4 5: 4 12.9 25.7 51.5 102.9 205.9
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##GMIFICATION003242 -6 GROUP LENGTH-2.EBJRH( .0978IN.) -6 -5 -4 -3 -2 -1 5.4 10.8 21.6 43.3 86.6 173.1 5.4 13.6 27.3 86.5 109.1 6.8 13.6 27.3 86.5 109.1 218.1 7.7 15.3 38.6 61.2 122.4 244.6 8.6 17.2 38.3 68.7 137.4 274.8	##GNIFICATION003536	## GANTECATION003850  - GROUP LENGTA 2.953KH ( .11631N.)  - GROUP 2.924 64.8 129.7  4.1 10.2 20.4 65.9 91.7 163.4  5.7 11.5 22.9 45.9 91.7 163.4  6.4 12.9 25.7 51.5 102.9 205.9  7.2 14.4 28.9 57.8 115.5 231.1	##GNIFICATION004204
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6.00 cm	6 X G T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C T W C		±21.000
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IMAGE PLANE RESOLUTION (LINES PER MILLIMETER)

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MAGNIFICATION004719 -6 GROUP LENGTH- 3.615MM( .1423IN.)	6 -5 -4 -3 -2 -	3-2 26-5 53-0 105		.7 9.4 18.7 37.8 74.9 149.	3 10.5 Page 62.0 A. 1.63	9 11.8 23.6 47.2 94.4 1		-6 GROUP LENGTH- 3.642EEC .1552TN.	OUP CONTRACTOR SECONDS	-5 -4 -3 -2	·0 6.1 12.1 24.3 48.6	3.6 27.3 54.5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.4 10.8 21.		.200MM/ 1403TN		-3 -2	22.3 44.5 89	2 6-3 12-5 25-0 50-0 100	14.0 28.1 56.1 112	- 6-6 17.7 35.4 76.7 4.4	0.6		.006120	*•   EEDDD••	-5 -4 -3 -2	5-1 10-2 20-4 40-8 81.	9 5.7 11.5 22.9 45.9 91.	5 7.2 14.4 28 2 2 6 1.5	4.1 8.1 16.2 32.4 64.8 129.7	9.1 18.2 36.4 72.8 145.
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034585 1288( .136	Z	27.3 54.5 109.1	3 66.7	6 77.3	3 86.6 1	6 97.2 1	,005000	3.830HM . 15081N.1		25 - 2 - 3	0.00	63.0	70.7	79.4	89.1	.005453	7787	,	2 4		201 6125	32.4 64.8 129.7	72.0 145	61.7 163		.005946 .5558m( .17931N.)		?	0.7	53.0	10.00	33.4 66.7 133.5	
GRIFICATION GROUP LENGT GRO		0 ~	.3 8.6 1	1 9.6	10.6	~ 	MAGNIFICATION -	-6 GROUP LENGTH-	GRO			3.9 7.9 15.7	80.6	6.0	11.1	•	GTM	4	֓֞֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		7.2	6-1 6-1 16-2	.5 %.	1 10.2 2		** GROUP LENGTH *	GROUP	• · · · · · · · · · · · · · · · · · · ·	10 m	3 6.6 13.2	7 704 3409	4.2 0.3 16.7	
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, <u>†</u> § 1	14.0 38.1 Sh.	15.7 31.5 63.0 126.0	17:7 35.4 70.7	20 3 AA 6 20 .		2000	•	CENCTAL B. TRIMME .: 4661%.)		12.9 25.7	14.4 28.9 57.8 11	16.2 32.4 64.8 12	1005 3000 72.9 14	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 1014 1024 1039	•	0.04 <b>- 1.</b> 0	63	1100 2300 47.2	13.2 20.5 53.0 1	14.4 29.7 59.5 11	W 600 000 1 100 100 100 100 100 100 100 1			10%005777	:		20 A 47 10 H-01	12.1 24.3 46.5	13.0 27.3 54.5 1	15-1 30-6 61-2	190 Back 77. 156.2	
MAGNIFICATION -6 GAGUP LENG 680	•	3.9 7.9	• •		,,,,,	•	DI JIND	- 6 GEOSIA	4.	• 5 •					-	AGNIFIC	31 ADD 85		<b>6.</b>	•		7.0 0.0		<u>.</u>	MAGNIFICATION	-6 GEULUS LENGTH-	-6		0			9	
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IMANE PLANF REGOLUTION (LINES PER MILLIMETER)

HAGNIFICATION005674 -6 GROUP LENGTH- S.112MH (.2013IN.) -5 -5 -4 -3 -2 -1 2.6 5.3 10.5 21.0 42.0 84.1 2.9 5.9 11.8 23.6 47.2 94.4 3.3 6.6 13.2 26.5 53.0 105.9 3.7 7.4 14.9 29.7 59.5 118.9	MAGNIFICATION007278 -6 GROUP LENGTH- 5.575MH (.2195IN.) -6 -5 -4 -3 -2 -1 2.1 4.3 9.6 17.2 34.3 68.7 2.4 4.8 9.6 19.3 34.3 68.6 2.7 5.4 10.8 21.6 43.3 86.6 3.0 6.1 12.1 24.3 44.6 97.2 3.4 6.8 13.6 27.3 54.5 109.1	MAGNIFICATION007937 -6 GROUP LENGTH- 6.080MM( .2394IN.) -6 -5 -4 -3 -2 -1 2.0 3.9 7.9 15.7 31.5 63.0 2.2 4.4 8.8 17.7 35.4 70.7 2.5 5.0 9.9 19.8 39.7 79.4 2.8 5.6 11.1 22.3 44.5 89.1 3.1 6.2 12.5 25.0 50.0 100.0 3.5 7.0 14.0 28.1 56.1 112.2	MAGNIFICATION008655 -5 GROUP LENGTH- 6.630MM( .2610IH.) -6 -5 -6 -7 -2 id. 20.9 57.6 2.0 4.1 8.1 16.2 32.4 64.6 2.0 5.1 10.2 20.4 40.8 81.7 2.9 5.7 11.5 22.9 45.9 91.7 3.2 6.4 12.9 25.7 51.5 102.9
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